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## The influence of spatial scales on Red List composition: Forest species in Fennoscandia

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## ABSTRACT

National Red Lists are widely used prioritizing tools for nature conservation. However, status and trends of species vary with scale, and accounting for a larger spatial scale may provide complementary perspectives for nature conservation. We investigate effects of up-scaling and influence of wider-scale distribution patterns for composition of Red Lists.

We collated nationally red-listed forest species in Norway, Sweden and Finland, and extracted “Candidates for a Fennoscandian Red List” (CFRL), defined as species red-listed where they appear in the region. For each country, we compared composition of organism groups and forest type associations of species that were national CFRL to the nationally red-listed species not CFRL. European distribution patterns were compared to investigate how broader-scale distribution is reflected in national Red Lists.

Among the 4830 nationally red-listed forest species in Fennoscandia, 58% were CFRL. The fraction of species in the different forest type and species groups differed significantly between the two spatial scales for several groups, although the overall differences in composition were relatively small. Red-listed species had more confined distribution patterns, suggesting that many nationally red-listed species owe their status to being at the edge of their distribution range.

An up-scaling had a large effect on which species designated to a Red List, but a relatively small impact on which organism groups or forest types that contained most red-listed species. A regional perspective generated by compilation of national Red Lists can give valuable complementary information on the status of species and effects of scale.

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## 1. Introduction

The International Union for Conservation of Nature (IUCN) has been assessing the global threat status of species since the 1960's to highlight declining and rare species with a risk of extinction. The result is the IUCN Red List, which with its scientific based criteria and coverage of all multicellular taxonomic groups, forms one of the most comprehensive data sources for nature conservation and management (Lamoreux et al., 2003; Mace et al., 2008; Rodrigues et al., 2006; Zamin et al., 2010). Alongside the IUCN's global Red List, more than one hundred national Red Lists have been produced during the last three

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decades to assist biodiversity conservation at the national level (Gärdenfors, 2001; IUCN, 2012a; Miller, 2013; Rodríguez, 2008; Vié et al., 2009) and the number is still increasing (Azam et al., 2016). As available resources for species conservation are limited, and neither species nor threat factors are evenly distributed, biodiversity conservation has to deal with prioritizations. Priorities are set by political goals and economy, and there is today an extensive use of national Red Lists in the setting of conservation priorities at various scales (Keller and Bollmann, 2004; Martín-López et al., 2011; Mittermeier et al., 1998; Possingham et al., 2002; Schmeller et al., 2014).

The definition and choice of spatial scale often directly affect the results of any given study (Rahbek, 2005). Accordingly, spatial scale is a strong determinant of the outcome of Red List assessments. National assessments are likely to give a different outcome than assessments at supra-national scales where larger parts of the distribution range are assessed, and in most cases, extinctions risk will be lower at larger scales. A species, unless it is nationally endemic, simply has a larger population at the global or regional level that inevitably affect its Red List status at a larger scale.

At the same time, large-scale population decline may be underestimated at national scales. Species assessed as “least concern” within a country might have declining populations in neighbouring countries, constituting an overall regional decline. Therefore, the regional situation might differ from the national situation for many species. A few studies have investigated Red List scale dependency by comparing Red List assessments at global and national level, reporting that many species were assigned to lower threat categories on the global list (Gärdenfors, 2001), but that most species on the national lists were not assessed at the global level (Brito et al., 2010; Rodríguez et al., 2000). For many species the national Red List assessment is the only available, comprehensive assessment of its status. When national Red Lists are implemented in conservation, it is therefore important to recognize that Red List assessments bear reference to the area assessed and cannot be directly extrapolated to larger areas. Thus, extinction risks will most likely differ between national, regional, and global scales, and often be lower with increasing spatial scale (Gärdenfors, 2001; Miller et al., 2007).

In this study, we collated individual Red List data for all forest species in the national Red Lists from Norway, Sweden, and Finland to generate a Fennoscandian –level overview of red-listed forest species and to study how scale may affect Red List composition. The Fennoscandian region has several benefits that make it suitable for this study. In addition to being a large connected land area where forest is the most extensive land cover type, approximately 50% of all red-listed species in each of the three countries are associated with forest (Artdatabanken, 2015; Henriksen and Hilmo, 2015; Rassi et al., 2010). The three countries have also published national Red Lists since the early 80's and have followed the most recent IUCN criteria since 2001 (IUCN, 2012b).

Besides different threat levels in different countries, natural geographic distribution patterns may be an important factor causing differences in the content of national Red Lists. Within a region, species at the edge of their distribution range tend to be more frequently represented on national Red Lists and edge of range species have a tendency to be assigned higher threat status (Eaton et al., 2005; Gustafsson, 1994; Lahti et al., 1991). In Europe, large-scale environmental gradients determine natural species distribution with important gradients from east to west and from north to south, including Fennoscandia (Finnie et al., 2007; Rueda et al., 2010). In order to investigate the larger scale effect of European distribution patterns on Fennoscandian forest species, we used data on European extent of distribution for vascular plants, macro-lichens, longhorn beetles, and birds, and looked at differences in geographical distribution between red-listed and non-red-listed species and between groups of red-listed species within and between countries.

We explore how increasing spatial scale impact Red List assessments and our perception of nationally red-listed species, and we discuss accordingly how national conservation prioritizations might be complemented by considering species status in neighbouring countries. Specifically, the aims of this study were to 1) investigate differences in species composition and species habitat affiliation between National Red Lists from Norway, Sweden and Finland and the selected candidates for a regional Fennoscandian Red List from each of these countries, 2) to analyse if differences of scale may relate to European distribution patterns of the species, and 3) to discuss how consideration of larger geographical scales may complement the national perspective in biodiversity conservation priorities.

## 2. Methods

### 2.1. The Fennoscandian region

The Fennoscandian region covers 1 171 037 km<sup>2</sup>, including Norway, Sweden, and Finland. It stretches 1800 km south to north and encompasses several vegetation zones, from nemoral in the south, through boreo-nemoral to the boreal zone further north (Moen, 1998). Furthermore, there is an additional climate gradient across Fennoscandia spanning 1300 km from the coastal west to the more continental east (Moen, 1998). Forest is the most extensive land cover type across the region and covers 37, 65 and 86% of the land area in Norway, Sweden, and Finland, respectively (forest.fi, 2016; Nibio, 2016; Skogstyrelsen, 2016). Coniferous forest is the most common forest type, constituting more than 75% of the forested area in each country (Nibio, 2016; Skogstyrelsen, 2016), and consists mainly of Norway spruce (*Picea abies*) and Scots pine (*Pinus sylvestris*), while birch (*Betula* spp.) is the most common deciduous tree (Moen, 1998). Nemoral forest is confined to the southern parts of the region where common tree species are beech (*Fagus sylvatica*) ash (*Fraxinus excelsior*), elm (*Ulmus glabra*), lime (*Tilia cordata*), and oak (*Quercus* spp.) (Moen, 1998; Parviainen and Västilä, 2011).

## 2.2. Compilation of the database

To collate the dataset of Fennoscandian red-listed forest species, we used the national Red Lists and associated documentation from Norway, Sweden, and Finland (Artdatabanken, 2015; Henriksen and Hilmo, 2015; Liukko et al., 2016; Rassi et al., 2010; Tiainen et al., 2016). These national Red Lists are all based on IUCN Red List Categories and criteria Version 3.1, 2<sup>nd</sup> edition.

We selected all red-listed species from each of the three national Red Lists classified with forest landscapes as the primary (obligate forest species) or secondary (species occurring in forest) habitat in at least one of the national Red Lists. Red List documentation from Norway, Sweden and Finland was consulted for available information on Red List status, forest type affiliation, and other habitat attributes of all included species. The forest types included were boreal forest (coniferous and boreal deciduous forest) and nemoral forest (broadleaved forest with warmth-loving tree species). Habitat attributes included were dead wood and old-growth forest. The term “red-listed” species includes species within the Red List categories RE (regionally extinct), CR (critically endangered), EN (endangered), VU (vulnerable), NT (near threatened), and DD (data deficiency) following IUCN's criteria and guidelines version 3.1 (IUCN, 2012b). The IUCN term “threatened species” refers to species within the three categories CR, EN, and VU.

When needed, species names in our dataset were synonymized with the help of species specialists at Swedish Species Information Centre (SSIC), the Norwegian Biodiversity Information Centre (NBIC), and specialists associated with the Finnish Red List Assessments. The 42 subspecies in the dataset were excluded from all analyses, and the combined dataset included 4830 forest-dwelling species red-listed in one or more countries in Fennoscandia (Table 1). We used the help of specialists from the respective countries to complement information for species lacking assessment in any of the countries. These species were assigned to either NA (Not Applicable, i.e. species not resident), NE (Not Evaluated), or LC (Least Concern).

## 2.3. Selecting candidates for a Fennoscandian Red List

A crude estimation of Candidates for a Fennoscandian Red List was made by combining the information from the three National Red Lists. We selected a subset of species that were red-listed categorized as DD, NT, VU, EN, CR or RE wherever they occur in Fennoscandia, whether in one, two or three countries (Fig. 1). We refer to this subset as “Candidates for a Fennoscandian Red List” (CFRL) (For list of candidates, see Appendix Table A.1). This selection of species implies that nationally red-listed species categorized as LC (least concern, or having viable populations) elsewhere in Fennoscandia are excluded from the regional candidate list. We are aware that some of these excluded species may actually belong to a regional list if following a proper IUCN assessment, e.g. due to overall population decline at the regional level. Likewise some of the species included may not belong to a regional list, e.g. because they exceed the threshold of the small population criteria for red-listing when all populations in the region are summed. Thus our selection is not a result of a comprehensive Fennoscandian status evaluation and must not be seen as such. Nevertheless, we consider our CFRL a list of strong candidates for a regional Red List that are representative enough to carry important information on the effects of up-scaling from national to regional level. A complete Fennoscandian Red List would require a coherent assessment of each species where the combined status and trends in all three countries are considered together and is an extensive commission far beyond the scope of this study.

## 2.4. Comparing national and Fennoscandian level

Within each country, we compared the composition of candidates for the regional Red List (CFRL) to that of the other nationally red-listed forest species. Comparisons were done for the composition of organism groups and for groups of similar forest habitat affiliations using chi-square tests. The null hypothesis for these tests was that the composition, whether of organism groups or groups of similar habitat affiliation, would be the same for species excluded from the CFRL as for those selected as CFRL.

Altogether, proportions of 14 organism groups were tested: bryophytes, lichens, vascular plants, fungi, arachnids, *Coleoptera*, *Diptera*, *Lepidoptera*, *Hymenoptera*, *Heteroptera*, molluscs, reptiles, birds and mammals. Due to low numbers of red-listed species in the invertebrate groups *Chilopoda*, *Hemiptera*, *Heteroptera*, *Hexapoda*, *Malacostraca*, *Mecoptera*, *Myriapoda*, *Neuroptera*, *Orthoptera*, *Paurapoda*, *Psocoptera*, *Siphonaptera*, *Strepsiptera*, *Thysanoptera*, and *Tricladida*, these were excluded from the analyses.

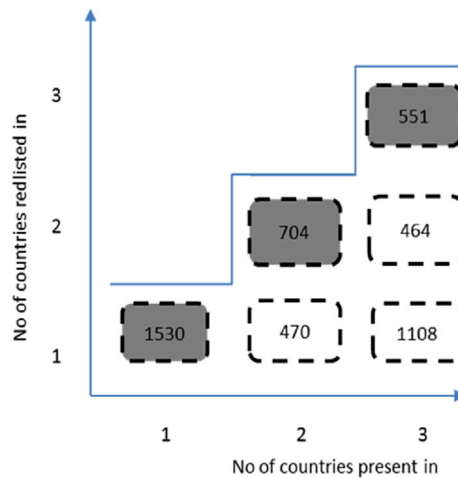
**Table 1**

Number and proportion of nationally red-listed species included in the dataset from each of the three countries and Fennoscandia.

	Norway	Sweden	Finland	Fennoscandia
Number of RL <sup>a</sup> forest species	2330	2437	2395	4830
Included as CFRL <sup>b</sup>	1343	1879	1359	2785
(% of RL-species)	57%	77%	57%	58%

<sup>a</sup> RL= red-listed.

<sup>b</sup> CFRL = candidates for a Fennoscandian Red List.



**Fig. 1.** Number of species red-listed and/or present in one, two or three of the Fennoscandian countries; the box in the lower left corner shows species that are red-listed in one country and present in one country. The next box to the right, shows species that are red-listed in one country and present in two countries and so on. Candidates for the Fennoscandian Red List (CFRL) are in dark grey boxes and species that do not qualify as CFRL are in white boxes.

To investigate the impact of broader scale distribution range on national Red Lists we collected data on natural European distribution for the Fennoscandian vascular plants ( $n=799$ ), macrolichens ( $n=215$ ), birds ( $n=118$ ) and longhorn beetles (*Cerambycidae*) ( $n=112$ ). Altogether, we collected distribution data on 1244 red-listed and non-red-listed forest species in Fennoscandia. The four organism groups were chosen for their relatively well-known distribution patterns and for representing different functional groups in forest ecosystems.

Lists of the non-red-listed forest species for these groups were compiled using Mossberg and Stenberg (2010) for vascular plants, Perrins (1987) for birds, Ehnström and Holmer (2007) for longhorn beetles, and Foucard et al. (2002), Ahti et al. (2007), Thell and Moberg (2011) and Ahti et al. (2013) for macro-lichens. Macro-lichens were defined according to Krog et al. (1994). For the categorising of species, we divided them into groups with a western, eastern, southern, or Pan-European distribution pattern in Europe using distribution maps published at Encyclopaedia of Life (<http://www.eol.org>) and GBIF (GBIF, 2016). The geographical distribution categories were defined as follow; southern species are distributed south of 62° north, but also species with only a few scattered records north of 62° were included. Western species have their main distribution in the coastal parts of Europe (present in the Iberia peninsula, Bretagne, the UK, Iceland, or Norway), and including some species with scattered populations in the humid Alps and mountain ranges around the Mediterranean. Eastern species are mainly found in Eastern Europe, and neither in UK, Iberia, nor Bretagne (nor elsewhere along the Atlantic coast). Species with a north-eastern distribution, found in Russia, Baltic, and in Eastern Europe north of the Alps were also included. Species with a widespread distribution all over Europe, or species not qualifying for any of the above-mentioned categories, were assigned to the “Pan-European” category.

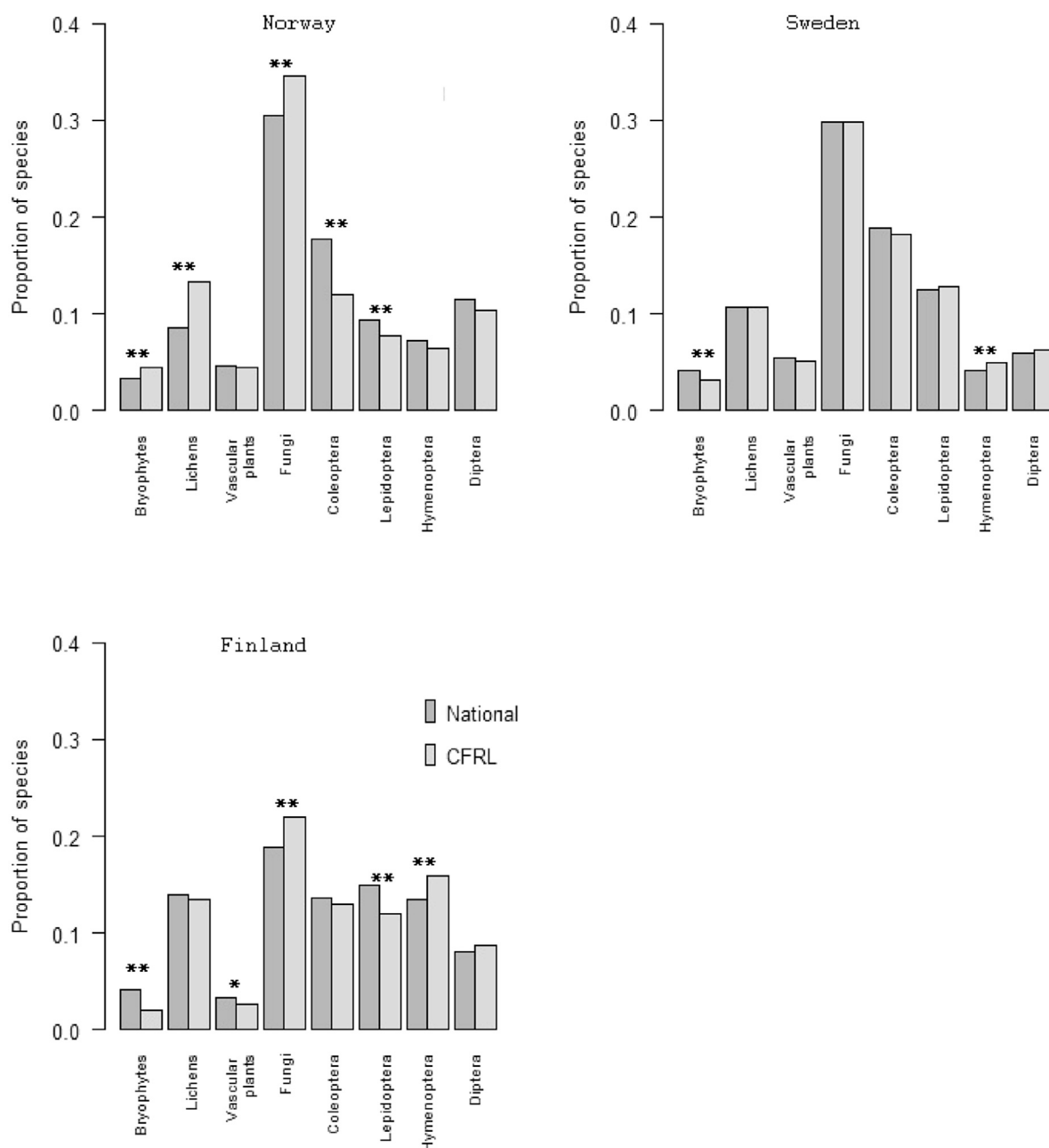
We compared red-listed and non-red-listed species from each of the four organism groups to see how they were distributed on the four distribution categories. Among the red-listed species, we also compared the different countries regarding proportions of red-listed species with Pan-European, western, southern, or eastern distribution patterns. This was also done for the CFRL in the four chosen organism groups. Differences in proportions were investigated using chi-square tests. All tests and graphics were performed in R Studio Version 3.3.1 (RStudioTeam, 2015).

### 3. Results

Among the overall 4830 nationally red-listed forest species in Fennoscandia, 3108 species (64%) are red-listed in one country only, 1168 species (24,2%) in two countries, and 551 (11%) are red-listed in all three countries. Norway and Sweden share the highest number of species (572 species), and fewest species are shared between Norway and Finland (309 species).

#### 3.1. Comparing national and Fennoscandian level

Altogether, 2785 (58%) of the red-listed forest species in Fennoscandia were red-listed in the countries they appear in and considered Candidates for the Fennoscandian Red List (CFRL) (Fig. 1; for full species list see Appendix Table A.1). Hence, 42% of nationally red-listed forest species in Fennoscandia have been assessed as Least Concern (LC) in at least one country. The proportion of nationally listed species included as CFRL varied between the countries, from 57% of nationally listed species in Norway and Finland, to 77% in Sweden (Table 1).



**Fig. 2.** Proportion of species in different organism groups in the national Red Lists (minus candidates for the Fennoscandian Red List) (dark grey bars) and among the national Candidates for the Fennoscandian Red List (CFRL) (light grey bars) for each country. The eight most species-rich groups are shown. For full test results, see [Appendix Table A.2](#). \* =  $p < 0.05$ , \*\* =  $p < 0.01$ .

Of the 14 organism groups tested, the results for the eight most species-rich groups are shown in [Fig. 2](#). Altogether, seven of these eight groups had a significantly different representation among the CFRL relative to the rest of the national Red List in one or more country ( $p < 0.05$ ). In both Norway and Finland, fungi made up a higher proportion of the CFRL, compared to the rest of the national Red Lists ([Fig. 2](#)). This means that there are proportionally more fungi species among the national CFRL from Norway and Finland than there are fungi species among the red-listed species not selected as candidates. In Norway, the same pattern was found for bryophytes and lichens. Further, Hymenoptera in both Sweden and Finland make up a higher proportion of the CFRL compared to the rest of the national Red List. For Lepidoptera both in Finland and Norway, and for bryophytes and vascular plants in Finland, and Coleoptera in Norway, the proportion of species from these groups were lower among the CFRL than among the rest of the species on the national Red Lists. For Sweden, a similar pattern was found for

bryophytes. Despite statistical significance, the magnitude of these compositional changes is still relatively small, with a maximum change of five percent points. All test results can be found in [Appendix, Table A.2](#).

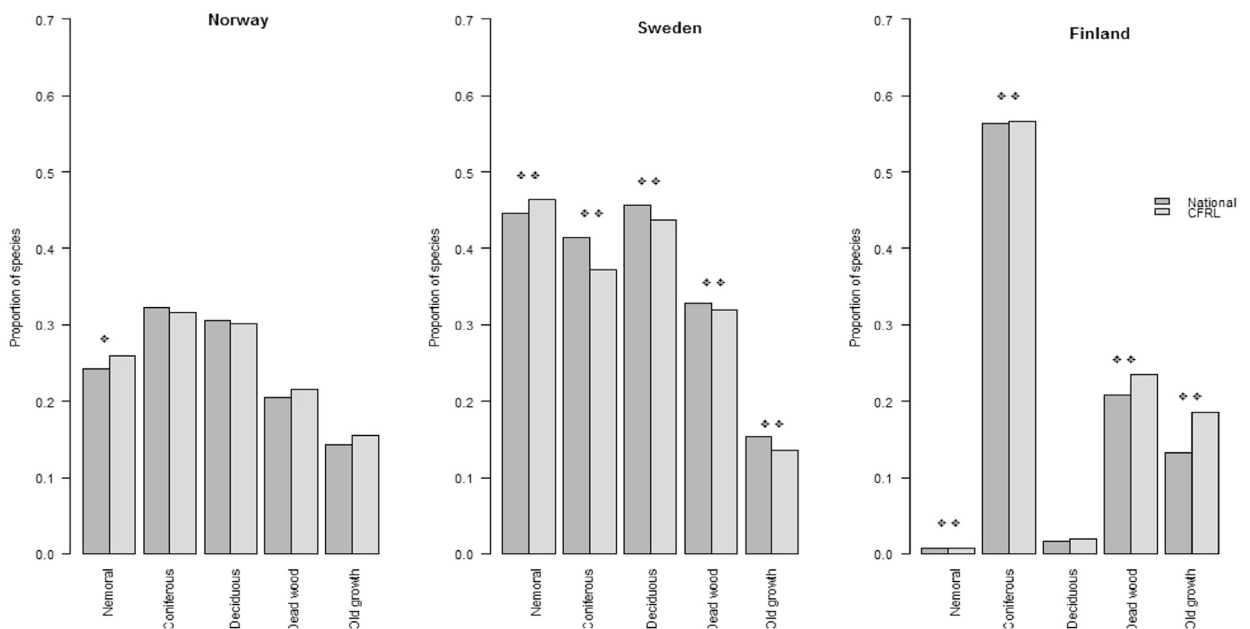
Regarding the relative share of red-listed species affiliated with major forest types, changing from national to Fennoscandian scale only lead to relatively small proportional changes (ranging between 0 and 5 percent points) in forest type affiliations, despite significant results. For Norway, there was a higher proportion among the CFRL that were associated with nemoral forest than it was among the other nationally red-listed species ( $p < 0.05$ ) ([Fig. 3](#)). In Sweden, there was also proportionally more species associated with nemoral forest among the CFRL ( $p < 0.05$ ) ([Fig. 3](#)), while the opposite pattern was found for both coniferous and deciduous forest species. For these species, the proportion of affiliated species was lower among the CFRL than among the rest of the red-listed species. This was also true for the affiliation with both dead wood and old-growth forest in Sweden. For Finland, proportionally fewer of the CFRL species were associated with nemoral forest relative to the rest of Finland's national Red List ( $p < 0.01$ ). This means that the nationally red-listed species found in nemoral forest in Finland, are more likely to be represented elsewhere in the region with a "least concern" status compared to species associated with other forest types. In contrast, species from old-growth forest and species related to dead wood in Finland made up a significantly higher proportion of the CFRL compared to the red-listed species in Finland that are not among the CFRL ( $p < 0.01$ ) ([Fig. 4](#)).

The overall proportional changes in Red List categories and criteria for red-listing were found to be small, and all Red List categories are represented among the candidates from each country ([Appendix Table A.3 and Table A.4](#)). There were more species in the threatened categories among the national CFRL compared to the national Red List as a whole, and the proportion of species listed nationally as NT was lower among the CFRL.

### 3.2. European distribution patterns

Among the red-listed species, the proportion showing an eastern, southern or western distribution pattern in Europe was significantly higher than it was among non-red-listed species for the tested organism groups ( $p < 0.001$ ), except birds ( $p = 0.063$ ) ([Fig. 4](#)). In total, 64% of the nationally red-listed species were found to have eastern, southern or western distribution patterns in comparison with 21% of the non-red-listed species. This pattern was clear for all four organism groups investigated, but most pronounced for longhorn beetles, where almost all (98%) of the red-listed species belonged to either the western, southern, or eastern distribution categories, compared to 34% of the non-red-listed species ([Fig. 4](#)).

Of the red-listed species, macrolichens was the group with the highest proportion of western species, and longhorn beetles had the highest proportions of southern and eastern species ([Table 2](#)). Red-listed species with a western distribution were more frequent in Norway, southern species in Sweden, and eastern species in Finland. Finland also had the highest relative proportion (49%) of species with a Pan-European distribution ([Table 2](#)). In Norway, all of the species classified as western were among the Candidates for the Fennoscandian Red List. The majority of these were lichens. In Sweden, as much as 89% of the southern species were included as CFRL, and in Finland, the eastern species had the highest proportion of



**Fig. 3.** Proportion of species associated to major forest types in the national Red Lists (minus candidates for the Fennoscandian Red list) (dark bars) and among the candidates for the Fennoscandian Red List (CFRL) (grey bars) for a) Norway, b) Sweden and c) Finland \* =  $p < 0.05$ , \*\* =  $p < 0.01$ .

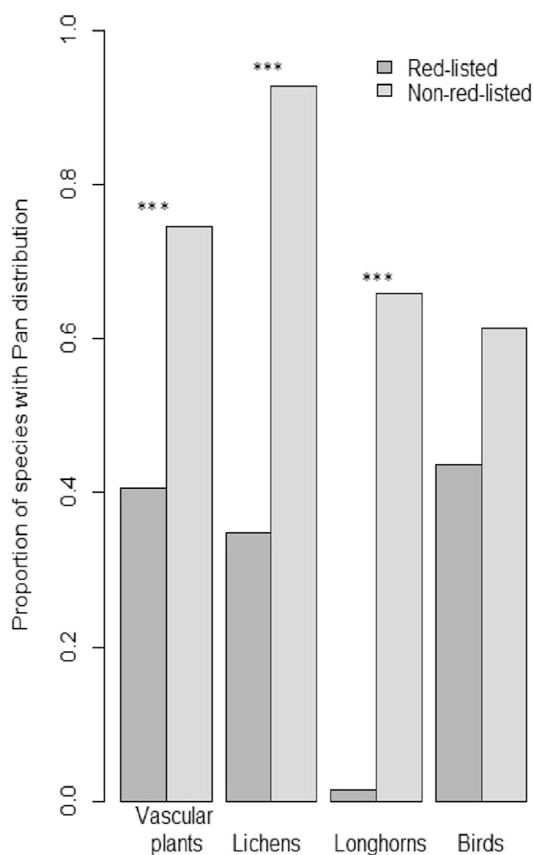


Fig. 4. Proportions of species with a Pan-European distribution among red-listed (dark grey) and non-red-listed (light grey) species. \*\*\* =  $p < 0.001$ .

candidates. Among the 13 species with a western distribution that are nationally red-listed in Finland ( $n = 203$ ) only 2 were included among the CFRL, indicating that western species resident in Finland have viable populations in the neighbouring countries.

#### 4. Discussion

Our provisional up-scaling of Red List assessments suggests considerable scale effects regarding which species that will be red-listed. In total, 2785 of the 4830 nationally red-listed forest species in Norway, Sweden and Finland were considered Candidates for a Fennoscandian Red List (CFRL) under the criteria of being red-listed (i.e. DD, NT, VU, EN, CR, RE) wherever found in the region. For each country, this number of candidates corresponds to 57–77% of the nationally red-listed species, meaning that the number of national CFRL is considerably lower than the number of nationally red-listed species in each country. There is a higher proportion of CFRL in Sweden, which is partly related to its geographical position. Sweden extends further into the species-rich nemoral zone than the other Fennoscandian countries, supporting red-listed species with southern distribution that are rare or absent from Norway and Finland. Also, the east-west species distribution gradients in Fennoscandia might lead to the centrally positioned Sweden having representatives from both eastern and western red-listed species, and therefore a higher proportion of species qualifying for the Fennoscandian list.

Several conditions may explain the observed differences between the candidates for the Fennoscandian level and the other nationally red-listed species in a country. Besides geographical differences in human impact on species populations, there are clearly natural climate gradients that determine broad species distribution patterns. Species are unevenly distributed throughout their range, being abundant in some areas, and less abundant in others (Murray et al., 1999). Usually species are less abundant towards the edges of their distribution range (Gaston, 1997) and differences increase with distance (Nekola and White, 1999). Thus, nationally rare species might not be consistently rare throughout their geographical range, and only parts of a species' total distribution range will be covered by national assessments, except for global Red List assessments and assessments of geographically restricted species. An expected outcome when the scale of assessment is smaller than the species distribution range, is that threat status will vary with scale. It is therefore important to take scale effects into account when national Red Lists are used as a prioritization tool in conservation.

**Table 2**

Proportion (given as percentage) of red-listed species from each of the four organism groups divided by the four distribution categories. Results are shown for each country and for the candidates for the Fennoscandian Red List (CFRL).

	n=	Pan-European	Western	Southern	Eastern
<b>Norway</b>					
Vascular plants	88	51.1	3.4	33.0	12.5
Macrolichens	69	29.0	36.2	17.4	17.4
Longhorn beetles	32	3.1	0.0	34.4	62.5
Birds	17	35.3	0.0	11.8	52.9
<b>Sweden</b>					
Vascular plants	119	36.5	8.0	29.2	13.1
Macrolichens	69	36.2	27.5	15.9	20.3
Longhorn beetles	45	0.0	0.0	46.7	53.3
Birds	35	42.9	0.0	20.0	37.1
<b>Finland</b>					
Vascular plants	89	54.4	4.4	15.6	17.8
Macrolichens	63	57.1	12.7	12.7	17.5
Longhorn beetles	30	0.0	3.3	30.0	66.7
<b>CFRL</b>					
Vascular plants	103	37.9	3.9	40.8	17.5
Macrolichens	62	30.6	40.3	14.5	14.5
Longhorn beetles	42	0.0	0.0	47.6	52.4
Birds	19	21.1	0.0	36.8	42.1

An effect of up-scaling may also arise directly from the distribution and availability of the forest habitats in the region. The forest landscapes across Fennoscandia are relatively homogenous and boreal forest extends throughout all three countries. Accordingly, we found largely the same relative number of red-listed species in the major forest types at the national and Fennoscandian scale. The only exception was Norway and Sweden who had a higher, and Finland who had a lower proportion of CFRL from nemoral forest. Nemoral forest is species-rich and covers a larger area in Sweden and Norway compared to Finland. Few nemoral species from Finland qualify as CFRL, and are therefore most likely more abundant in southern Sweden and south-eastern Norway, and at the edge of their distribution range in Finland (forest.fi, 2016; Sandström et al., 2015). The composition and heterogeneity of habitats within a region will inevitably affect the correspondence between a national and a regional Red List. In more heterogeneous parts of the world, a stronger effect of up-scaling could be expected on forest type affiliations. In our study region, however, species distribution at the wider scale seems to be relatively more important than habitat affiliation in explaining differences between spatial scales.

The red-listed vascular plants, lichens, longhorn beetles and birds showed a higher frequency of western, southern, or eastern distribution across Europe compared to the non-red-listed species of the same taxa which typically have a “Pan-European” distribution. This is in line with previous studies, e.g. from a study of vascular plants in Sweden showing that threatened taxa are less widespread than non-threatened taxa which have wider European distributions (Gustafsson, 1994). In addition, we found that species with a western distribution are red-listed in Norway (western part of Fennoscandia) and species with a southern and eastern distribution are red-listed in Sweden and Finland respectively. The pattern is strengthened by the fact that the species in Norway with a western distribution are all Candidates for the Fennoscandian Red List, meaning they are either only found in Norway or red-listed also in the neighbouring countries. One concrete example is the red-listed lichen species in Norway, as they are mostly western species, and also found to have a high proportion of CFRL. This pattern repeats itself for Sweden and Finland, as the highest representation of CFRL in these countries is found among the southern and eastern species respectively. Species in Fennoscandia with a strict western, southern, or eastern distribution pattern at the European scale are likely to be CFRL, indicating influence of wider-scale distribution patterns on the outcome of Red List assessments.

It has been shown that a smaller area of assessment leads to higher threat status for many species (Milner-Gulland et al., 2006). With a strict national focus, one might overlook the fact that some species will be nationally, but not regionally red-listed, and vice versa. There will also be species that qualify for a regional red list, but are not nationally red-listed in all countries within the region. In our dataset, we identified 934 species that were red-listed in one or two out of three countries and have a status of “least concern” in one country. These species were excluded from the CFRL in this current study, but the concept of “national responsibility species” can allow for the annotation of such species as of nationally high conservation concern independent of national Red List category (Schmeller et al., 2014). Such species might therefore be assigned “national responsibility species” also in countries where they have a “least concern” status. Species conservation should not only focus on the most endangered species, but also prevent species with viable populations from becoming threatened (Pfab et al., 2011). A combined supra-national dataset of red-listed species can be useful in assisting the identification of “national responsibility species” by simultaneously consider both national Red List status and the status in neighbouring countries.

When a larger-scale goal for conservation is aimed at, one might argue for a higher national prioritization of habitats that are poorly represented in neighbouring countries, and vice versa. Similarly, identifying changes in the relative importance of habitat types for red-listed species with scale may be useful in national conservation prioritizing. At the species level, one



might also argue for a higher prioritization of species groups that have many species threatened also at the larger scale. For the overwhelming majority of forest species in Fennoscandia, the national Red List status is the only extinction risk estimate available. Of the 4830 species in our dataset, only 2 and 4% are assessed at European and Global level respectively (see Appendix Table A.1). The upscaling from a national Red List to the CFRL of the present study illustrate the potential effects that an up-scaling might have on composition of Red Lists. More generally, our approach of combining the knowledge of already existing national red-list assessments and associated data represents a feasible way of obtaining a source of complementary information on species status in a broader region.

## Acknowledgements

We gratefully acknowledge the nearly 300 species experts that have been involved in the national Red List assessment of the species used in this study for the Finnish Ministry of Environment, the Norwegian Biodiversity Information Centre and the Swedish Species Information Centre. We especially thank the species experts at the Swedish Species Information Centre in Sweden, Snorre Henriksen at the Norwegian Biodiversity Information Facility, Esko Hyvärinen at the Finnish Ministry of Environment and Aino Juslén at the Finnish Museum of Natural History for helpful assistance in collecting and preparing data. We would also like to thank other colleagues for helpful comments during the working process. This research did not receive any specific grant from funding agencies in the public, commercial, or not-for-profit.

## Appendix

**Table A1**

Species included as “Candidates for the Fennoscandian Red List” (CFRL), and their status on the European Red List (EU) and the IUCN Global Red List. Species are sorted in alphabetical order.

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Abia candens</i>	NT	NA	NT		
<i>Abia mutica</i>	NA	NE	NT		
<i>Abia sericea</i>	VU	NT	CR		
<i>Abraeus granulum</i>	NA	NT	NA		
<i>Abraeus parvulus</i>	EN	EN	NA		
<i>Abrothallus peyritschii</i>	NA	NE	DD		
<i>Abrothallus suecicus</i>	NA	NE	DD		
<i>Absconditella celata</i>	NA	NE	DD		
<i>Acalles camelus</i>	NA	NT	NA		
<i>Acalles misellus</i>	VU	NT	NA		
<i>Acalles navieresi</i>	NA	NT	NA		
<i>Acartauchenius scurrilis</i>	NA	DD	VU		
<i>Acasis appensata</i>	EN	VU	VU		
<i>Accipiter gentilis</i>	NT	NT	NT	LC	LC
<i>Acer campestre</i>	NA	CR	NA		
<i>Achalcus bimaculatus</i>	NA	NT	NA		
<i>Achalcus melanotrichus</i>	VU	NT	NA		
<i>Achorotile longicornis</i>	NA	DD	EN		
<i>Acleris quercinana</i>	NA	VU	NA		
<i>Acleris schalleriana</i>	NT	NT	NT		
<i>Aclista evadne</i>	NT	NE	NE		
<i>Aclista ninae</i>	NT	NA	NA		
<i>Aclista relativa</i>	NT	NA	NA		
<i>Acmaeops marginata</i>	EN	EN	NT		
<i>Acmaeops septentrionis</i>	EN	NT	NT		
<i>Acmaeops smaragdula</i>	RE	RE	VU		
<i>Acnemia amoena</i>	NA	NE	VU		
<i>Aconitum napellus</i>	NA	CR	NA		
<i>Acritus homoeopathicus</i>	CR	NA	NA		
<i>Acritus minutus</i>	EN	RE	VU		
<i>Acrolepiopsis betulella</i>	EN	DD	NA		
<i>Acronicta tridens</i>	VU	VU	EN		
<i>Actebia fennica</i>	NA	NA	EN		
<i>Acyrtosiphon chelidonii</i>	NA	NA	VU		
<i>Adelphomyia punctum</i>	NA	NE	VU		
<i>Adialytus thelaxis</i>	NA	NE	NT		
<i>Aeletes atomarius</i>	NA	NT	NA		
<i>Aesalus scarabaeoides</i>	NA	EN	NA	NT	
<i>Aethes kyrkii</i>	NA	NA	EN		

(continued on next page)

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Aethusa cynapium elata</i>	VU	NA	NA		
<i>Agapetus fuscipes</i>	NA	VU	NA		
<i>Agaricus lanipes</i>	NA	NT	NA		
<i>Agaricus litoralis</i>	NE	NT	NA		
<i>Agaricus phaeolepidotus</i>	NE	DD	NA		
<i>Agathidium plagiatum</i>	NA	VU	NA		
<i>Agathidium pulchellum</i>	NA	EN	VU	NT	NT
<i>Agathomyia zetterstedti</i>	NA	NT	NE		
<i>Agenioideus ciliatus</i>	NA	EN	NA		
<i>Aglaopis tridentata</i>	NA	VU	RE		LC
<i>Aglaostigma gibbosum</i>	VU	NE	NA		
<i>Agnathosia sandoeensis</i>	NA	EN	NA		
<i>Agonopterix astrantiae</i>	EN	VU	EN		
<i>Agonopterix bipunctosa</i>	NA	VU	NA		
<i>Agrilus ater</i>	NA	NA	VU		
<i>Agrilus convexicollis</i>	NA	VU	NA		
<i>Agrilus cuprescens</i>	NA	NT	NE		
<i>Agrilus delphinensis</i>	NA	NA	CR		
<i>Agrilus guerini</i>	NA	NT	NA		
<i>Agrilus integerrimus</i>	NA	NA	EN		
<i>Agrilus laticornis</i>	NT	NT	VU		
<i>Agrilus olivicolor</i>	EN	NT	NA		
<i>Agriphila poliella</i>	NA	VU <sup>a</sup>	EN		
<i>Agrochola lychnidis</i>	NA	NT	NA		
<i>Agrocybe firma</i>	DD	NT	NE		
<i>Agrypnia sahlbergi</i>	NA	DD	NA		
<i>Agyrtes bicolor</i>	NA	DD	NA		
<i>Aira caryophyllea</i>	NE	VU	NA		
<i>Albatrellus citrinus</i>	VU	VU	DD		
<i>Albatrellus cristatus</i>	VU	EN	NA		
<i>Alchemilla oleosa</i>	NT	NE	NA		
<i>Alchemilla oxydonta</i>	VU	EN	NA		
<i>Alchemilla semidivisa</i>	VU	NA	NA		
<i>Alchemilla taernaënsis</i>	NT	NT	NA		
<i>Alcis jubatus</i>	NT	NT	NT		
<i>Alectoria sarmentosa</i> subsp. <i>Sarmentosa</i>	NT	NT	NT		
<i>Aleochara haemoptera</i>	NA	NA	RE		
<i>Aleochara ruficornis</i>	NA	NA	VU		
<i>Aleuriella personata</i>	NA	NA	DD		
<i>Aleurodiscus fennicus</i>	NA	RE	DD		
<i>Allecula morio</i>	NA	NT	RE		
<i>Allecula rhenana</i>	NA	VU	NA		
<i>Allium lusitanicum</i>	EN	EN	NA		
<i>Allodia (Brachycampta) pistillata</i>	NA	NE	DD		
<i>Allodia (Brachycampta) subpistillata</i>	NA	NE	DD		
<i>Allodia barbata</i>	DD	NE	NA		
<i>Allodia confusa</i>	NT	NE	NA		
<i>Allodia rindeni</i>	DD	NE	NA		
<i>Allomyella portenkoi</i>	DD	NA	NA		
<i>Allopauropus damicus</i>	NT	DD	NE		
<i>Allygus maculatus</i>	NA	DD	NA		
<i>Alopecosa cursor</i>	NA	CR	NA		
<i>Alopex lagopus</i>	CR	EN	CR		
<i>Alpova diplophloeus</i>	NT	VU	NA		
<i>Altica aenescens</i>	NA	NA	VU		
<i>Amanita ceciliae</i>	NE	NT	NE		
<i>Amanita eliae</i>	NA	EN	NA		
<i>Amanita franchetii</i>	NE	VU	DD		
<i>Amanita friabilis</i>	VU	NT	NT		
<i>Amanita lividopallescens</i>	NE	NT	NE		
<i>Amanita strobiliformis</i>	NA	NT	NA		
<i>Amaurodon cyaneus</i>	VU	NA	VU		
<i>Amaurodon viridis</i>	NT	NA	RE		
<i>Amauronyx maerkelii</i>	NA	DD	NA		
<i>Amiota alboguttata</i>	NE	NT	NE		
<i>Amiota flavopruinosa</i>	NA	NT	NA		
<i>Amischa andreasi</i>	NA	NA	DD		
<i>Ampedus cardinalis</i>	CR	NT	NA	NT	NT
<i>Ampedus cinnabarinus</i>	NT	NT	EN		
<i>Ampedus elegantulus</i>	NA	RE	NA		LC
<i>Ampedus lepidus</i>	NA	NA	VU	DD	

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Ampedus nigerrimus</i>	NA	EN	NA	NT	
<i>Ampedus praeustus</i>	NT	NT	VU		LC
<i>Ampedus rufipennis</i>	NA	VU	NA		LC
<i>Ampedus triangulum</i>	NA	EN	NA		
<i>Amphinema diadema</i>	NE	DD	NA		
<i>Amylocorticium subincarnatum</i>	EN	EN	VU		
<i>Amylocorticium subsulphureum</i>	DD	DD	NT		
<i>Amylocystis lapponica</i>	EN	VU	NT		
<i>Anacamptis fuscilla</i>	NA	VU	EN		
<i>Anacileia dziedickii</i>	NA	NE	VU		
<i>Anaesthetis testacea</i>	NA	NT	NA		
<i>Anaglyptus mysticus</i>	CR	NT	NA		LC
<i>Anaspis garneysi</i>	NA	DD	NA		
<i>Anaspis ruficollis</i>	CR	NE	NA		
<i>Anastrophyllum cavifolium</i>	DD	DD	EN		
<i>Anastrophyllum donnianum</i>	NT	NA	NA		
<i>Anastrophyllum joergensenii</i>	EN	NA	NA		
<i>Anatella alpina</i>	DD	NA	NA		
<i>Anatella aquila</i>	NT	NE	DD		
<i>Anatella bremia</i>	DD	NE	DD		
<i>Anatella fungina</i>	DD	NE	NA		
<i>Anchimia cristalis</i>	NA	CR	NA		
<i>Ancistronycha cyanipennis</i>	NT	NT	RE		
<i>Ancylis obtusana</i>	NA	NT	NT		
<i>Andrena argentata</i>	NT	NT	NT	DD	
<i>Andrena curvungula</i>	NA	NT	NA	DD	
<i>Andrena fulvago</i>	VU	NT	VU	DD	
<i>Andrena gelriae</i>	NA	EN	VU	DD	
<i>Andrena marginata</i>	VU	NT	CR	DD	
<i>Andrena nanula</i>	VU	VU	VU	DD	
<i>Andrena nigrospina</i>	EN	NT	VU		
<i>Andrena similis</i>	NA	EN	EN	DD	
<i>Andrenosoma albibarbe</i>	NA	NA	CR		
<i>Andrenosoma atrum</i>	NA	RE	NA		
<i>Andricus paradoxus</i>	NA	NE	VU		
<i>Andricus quadricorticis</i>	NA	NE	VU		
<i>Andricus quercusradicis</i>	NA	NE	VU		
<i>Andricus testaceipes</i>	NA	NE	VU		
<i>Anemone sylvestris</i>	NA	NT	NA		
<i>Anemone trifolia</i>	NA	NA	VU		
<i>Aneura maxima</i>	NA	NA	VU		
<i>Aneurys laevis</i>	NT	VU	NA		
<i>Anisoxya fuscula</i>	VU	VU	NA		
<i>Anitys rubens</i>	EN	NT	NA		
<i>Anobium costatum</i>	NA	NT	NA		
<i>Anobium fulvicorne</i>	VU	NT	EN		
<i>Anoecia zirnitsi</i>	NA	NE	NT		
<i>Anogcodes rufiventris</i>	NA	VU	NA		
<i>Anomoloma albolutescens</i>	EN	CR	VU		
<i>Anomoloma myceliosum</i>	VU	EN	NT		
<i>Anomoporia bombycina</i>	EN	EN	NT		
<i>Anoplius aeruginosus</i>	NA	NT	EN		
<i>Anoplius alpinobalticus</i>	NA	VU	RE		
<i>Anotylus tetratoma</i>	DD	NA	EN		
<i>Anser fabalis</i>	VU	NT	VU	LC	LC
<i>Anteon infectum</i>	NT	NE	NE		
<i>Anthericum liliago</i>	NA	EN	NA		
<i>Anthocoris amplicollis</i>	VU	VU	NA		
<i>Anthonomus ulmi</i>	NA	NT	NA		
<i>Anthracobia rehmi</i>	NT	NA	NA		
<i>Anthrax trifasciatus</i>	VU	NT	RE		
<i>Anthrenochernes stellae</i>	NA	NT	NA		
<i>Anthribus fasciatus</i>	NA	NT	RE		
<i>Antipalus varipes</i>	NA	VU	NE		
<i>Antrodia albobrunnea</i>	NT	VU	NT		
<i>Antrodia crassa</i>	CR	CR	EN		
<i>Antrodia infirma</i>	EN	EN	VU		
<i>Antrodia malicola</i>	DD	NA	NA		
<i>Antrodia mellita</i>	VU	VU	NT		
<i>Antrodia primaeva</i>	EN	EN	VU		

(continued on next page)

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Antrodia pulvinascens</i>	NT	NT	VU		
<i>Antrodiella canadensis</i>	CR	NA	EN		
<i>Antrodiella citrinella</i>	VU	CR	NT		
<i>Antrodiella parasitica</i>	DD	VU	VU		
<i>Apatania muliebris</i>	NA	NT	NA		
<i>Apethymus apicalis</i>	NT	NE	NT		
<i>Aphanobasidium subnitens</i>	DD	NA	NA		
<i>Aphanogmus fasciipennis</i>	NT	NE	NE		
<i>Aphanogmus furcatus</i>	NT	NE	NE		
<i>Aphis brunellae</i>	NA	NE	EN		
<i>Aphis craccivora</i>	NA	NE	EN		
<i>Aphis erigerontis</i>	NA	NA	CR		
<i>Aphis selini</i>	NA	NA	VU		
<i>Aphis serpylli</i>	NA	NE	EN		
<i>Aphis triglochinis</i>	NA	NE	VU		
<i>Aphis uvaeursi</i>	NA	NE	DD		
<i>Aphis violae</i>	NA	NA	NT		
<i>Apion atomarium</i>	NA	NT	NT		
<i>Apion melancholicum</i>	EN	NT	NT		
<i>Aplota kadeniella</i>	NA	NA	VU		
<i>Aplota palpella</i>	VU	NT	NA		
<i>Apocheiridium ferum</i>	NA	NT	NA		
<i>Apomyeloides bistriatella</i>	NT	NT	NA		
<i>Aporinellus sexmaculatus</i>	NA	VU	CR		
<i>Apotomis demissana</i>	NA	DD	NA		
<i>Aquila clanga</i>	NA	NA	CR		
<i>Arachnopeziza aurelia</i>	NE	NE	CR		
<i>Arachnospila alvarabnormis</i>	NA	EN	NA		
<i>Arachnospila consobrina</i>	NA	NT	EN		
<i>Arachnospila wesmaeli</i>	VU	NT	EN		
<i>Arachnospila westerlundii</i>	VU	VU	NA		
<i>Aradus angularis</i>	NA	VU	VU		
<i>Aradus annulicornis</i>	NA	NA	RE		
<i>Aradus aterrimus</i>	NA	CR	RE		
<i>Aradus bimaculatus</i>	NA	NT	NT		
<i>Aradus laeviusculus</i>	RE	EN	NT		
<i>Aradus truncatus</i>	NT	EN	NT		
<i>Araneus angulatus</i>	NT	NT	NT		
<i>Araneus triguttatus</i>	NA	NT	NA		
<i>Araniella inconspicua</i>	NA	NT	NA		
<i>Archaphorura serratotuberculata</i>	VU	NA	NA		
<i>Archips betulanus</i>	VU	NT	VU		
<i>Arctobius agelenoides</i>	VU	DD	NT		
<i>Arctophila bombiformis</i>	VU	CR	NA		
<i>Arctosa figurata</i>	NA	NT	NT		
<i>Arge cyanocrocea</i>	NA	NE	NT		
<i>Arge enodis</i>	RE	NE	RE		
<i>Arge pullata</i>	NA	NE	VU		
<i>Argyra loewi</i>	NA	VU	NA		
<i>Arhopalus ferus</i>	NA	EN	EN		
<i>Aristolochia clematitis</i>	NA	NT	NA		
<i>Armadillidium opacum</i>	VU	NT	NA		
<i>Arnellia fennica</i>	NT	NT	VU		
<i>Arotes albicinctus</i>	NA	NA	EN		
<i>Arpinia fusispora</i>	NA	DD	NA		
<i>Arrhopalites sericus</i>	VU	NA	NA		
<i>Arthonia anombrophila</i>	NA	CR	NA		
<i>Arthonia boreella</i>	NA	NA	RE		
<i>Arthonia byssacea</i>	CR	VU	CR		
<i>Arthonia caesia</i>	NA	NA	RE		
<i>Arthonia cinnabarina</i>	VU	CR	NA		
<i>Arthonia elegans</i>	VU	NA	NA		
<i>Arthonia helvola</i>	NA	NT	EN		
<i>Arthonia ilicina</i>	VU	NA	NA		
<i>Arthonia incarnata</i>	NA	VU	NT		
<i>Arthonia lirellans</i>	VU	NA	NA		
<i>Arthonia orbillifera</i>	VU	NA	NA		
<i>Arthonia pruinata</i>	NA	NT	NA		
<i>Arthonia stellaris</i>	VU	NA	NA		
<i>Arthonia tenellula</i>	NE	NA	NT		
<i>Arthonia zwackhii</i>	NA	CR	NA		

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Arthopyrenia cerasi</i>	NE	NE	DD		
<i>Arthopyrenia cinereopruinosa</i>	NE	NE	NT		
<i>Arthopyrenia subcerasi</i>	NA	NE	NT		
<i>Arthothelium norvegicum</i>	VU	NE	NA		
<i>Arthrolips obscura</i>	NA	RE	RE		
<i>Arthrosporum populorum</i>	NE	NE	NT		
<i>Arum cylindraceum</i>	NA	RE	NA		
<i>Asarum europaeum</i>	VU	NA	NT		
<i>Asemum tenuicorne</i>	NA	EN	NA		
<i>Asindulum nigrum</i>	NA	VU	NA		
<i>Asiraca clavicornis</i>	NT	NA	NA		
<i>Asplenium adulterinum</i>	VU	VU	VU		LC
<i>Asplenium ceterach</i>	NA	CR	NA		
<i>Astata minor</i>	NA	NT	NT		
<i>Astiosoma ruffifrons</i>	NA	DD	NA		
<i>Astragalus penduliflorus</i>	NA	EN	NA		
<i>Astrenis sinuata</i>	NA	NE	VU		
<i>Atanycolus denigrator</i>	NA	NE	RE		
<i>Atanycolus ivanowi</i>	NA	NE	RE		
<i>Atanycolus neesii</i>	NA	NE	RE		
<i>Aterpia sieversiana</i>	NA	VU	NA		
<i>Atheloderma mirabile</i>	NA	VU	VU		
<i>Athelopsis lacerata</i>	VU	NT	NA		
<i>Atheta autumnalis</i>	NT	NT	VU		
<i>Atheta liturata</i>	NA	VU	NA		
<i>Atheta pfaundleri</i>	NA	DD	NA		
<i>Atheta taxiceroides</i>	NT	NT	NT		
<i>Athetis gluteosa</i>	NT	NT	EN		
<i>Athrips amoenellus</i>	NA	EN	EN		
<i>Atomaria ihsseni</i>	NA	NA	NT		
<i>Atomaria lapponica</i>	VU	NT	DD		
<i>Atomaria nigripennis</i>	EN	VU	EN		
<i>Atomaria nigriventris</i>	NA	DD	NA		
<i>Atomaria pseudaffinis</i>	NT	DD	NA		
<i>Atomaria rubricollis</i>	NA	DD	NT		
<i>Atomaria scutellaris</i>	NA	DD	NA		
<i>Attagenus punctatus</i>	NA	VU	NA		
<i>Atypus affinis</i>	NA	EN	NA		
<i>Aulogastromyia anisodactyla</i>	DD	NE	DD		
<i>Aulonothroscus laticollis</i>	NA	DD	CR		
<i>Aulops alpina</i>	NA	NA	NT		
<i>Aureoboletus gentilis</i>	EN	VU	CR		
<i>Auricularia mesenterica</i>	NT	NT	NA		
<i>Auriculariopsis albomellea</i>	DD	RE	NA		
<i>Axenylloides echinatus</i>	VU	NA	NA		
<i>Bacidia absistens</i>	NT	VU	NA		
<i>Bacidia auerswaldii</i>	NE	CR	NA		
<i>Bacidia friesiana</i>	NA	VU	CR		
<i>Bacidia hemipolia</i>	NA	NE	EN		
<i>Bacidia illudens</i>	NE	NE	NT		
<i>Bacidia incompta</i>	EN	EN	NT		
<i>Bacidia laurocerasi</i>	VU	EN	EN		
<i>Bacidia polychroa</i>	NA	VU	CR		
<i>Bacidia rosella</i>	CR	VU	NA		
<i>Bacidia rosellizans</i>	NA	NT	NA		
<i>Bacidina delicata</i>	NA	VU	DD		
<i>Bacidina phacodes</i>	NE	NT	VU		
<i>Bacotia claustrilla</i>	NA	NT	NA		
<i>Bactra suedana</i>	NA	NT	NA		
<i>Bactrospora brodoi</i>	EN	VU	RE		
<i>Bactrospora corticola</i>	VU	NT	NA		
<i>Bactrospora dryina</i>	NA	EN	NA		
<i>Bactrospora homalotropa</i>	CR	NA	NA		
<i>Baeospora myriadophylla</i>	VU	DD	EN		
<i>Baetis liebenaue</i>	NA	NT	NA		
<i>Baetis tracheatus</i>	NA	VU	NA		
<i>Baizongia pistaciae</i>	NA	NE	VU		
<i>Balea biplicata</i>	VU	NT	NA		
<i>Balea sarsii</i>	DD	DD	NA		
<i>Balsamia platyspora</i>	DD	NE	NA		

(continued on next page)

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Baptia tibiale</i>	CR	EN	EN		
<i>Barbastella barbastellus</i>	CR	VU	NA	VU	NT
<i>Barbula crocea</i>	CR	NA	NA		
<i>Baryphyma insigne</i>	NA	NA	DD		
<i>Basalys crassiceps</i>	NT	NA	NA		
<i>Basalys singularis</i>	NT	NA	NA		
<i>Batrisodes adnexus</i>	VU	VU	NA		
<i>Batrisodes buqueti</i>	NA	NA	EN		
<i>Batrisodes delaporti</i>	EN	VU	NA		
<i>Bellardia vespillo</i>	NA	DD	NE		
<i>Belonioscyphella pluriseptata</i>	NA	NA	DD		
<i>Belyta breviscapa</i>	DD	NA	NA		
<i>Bembecia ichneumoniformis</i>	NT	NT	EN		
<i>Bembidion humerale</i>	NA	VU	CR		
<i>Bembidion monticola</i>	NA	NA	VU		
<i>Beraea maura</i>	NT	VU	NA		
<i>Beris fuscipes</i>	NA	NT	NA		
<i>Beris vallata</i>	NA	NT	NA		
<i>Betulaphis brevipilosa</i>	NA	NE	DD		
<i>Betuloxys hortorum</i>	NA	NA	VU		
<i>Biatora aureolepra</i>	EN	NA	NA		
<i>Biatora fallax</i>	NT	VU	VU		
<i>Biatora hypophaea</i>	NT	NA	NE		
<i>Biatora pontica</i>	EN	NA	NA		
<i>Biatora troendelagica</i>	CR	NA	NA		
<i>Biatorella conspurcans</i>	NE	NE	DD		
<i>Biatoridium monasteriense</i>	NT	VU	NT		
<i>Bibio fulvicollis</i>	RE	VU	NA		
<i>Bibio lautaretensis</i>	NT	NA	NA		
<i>Bibio leucopterus</i>	NA	DD	NA		
<i>Bibloporus mayeti</i>	NA	VU	NA		
<i>Bibloporus ultimus</i>	NA	VU	NA		
<i>Biphyllus lunatus</i>	RE	EN	RE		
<i>Biscogniauxia cinereolilacina</i>	NT	VU	NA		
<i>Biscogniauxia marginata</i>	NE	NT	NA		
<i>Biscogniauxia nummularia</i>	NE	DD	NE		
<i>Blepharita amica</i>	NA	NA	VU		
<i>Blera eoa</i>	NA	EN	NA		
<i>Boidinia subasperispora</i>	NT	NT	NT		
<i>Boletina atridentata</i>	NT	NE	NA		
<i>Boletina kivachiana</i>	DD	NE	VU		
<i>Boletina kowarzi</i>	VU	NA	NA		
<i>Boletopsis grisea</i>	VU	VU	NT		
<i>Boletopsis leucomelaena</i>	NT	VU	VU		
<i>Boletus appendiculatus</i>	NE	NT	NE		
<i>Boletus fechtneri</i>	NA	VU	NA		
<i>Boletus legaliae</i>	NA	EN	NA		
<i>Boletus queletii</i>	NA	VU	NE		
<i>Boletus radicans</i>	NA	NT	EN		
<i>Boletus rhodopurpureus</i>	NA	EN	NA		
<i>Boletus rhodoxanthus</i>	CR	EN	NA		
<i>Boletus satanas</i>	NA	EN	NA		
<i>Boletus subappendiculatus</i>	DD	NA	NA		
<i>Bolitophila (Chopisa) ingraca</i>	NA	NE	NT		
<i>Bolitophila edwardsiana</i>	NT	NE	NA		
<i>Bolitophila limitis</i>	DD	NE	NE		
<i>Bolopus furcatus</i>	NA	NT	NA		
<i>Boloria titania</i>	NA	NA	EN	NT	
<i>Bombus muscorum</i>	NT	NT	NT	VU	
<i>Boros schneideri</i>	NA	EN	VU	VU	
<i>Bostrichopyga borealis</i>	DD	NA	NA		
<i>Bostrichus capucinus</i>	NA	EN	NA		LC
<i>Bothrideres contractus</i>	RE	EN	CR		
<i>Botrychium lanceolatum</i>	VU	VU	VU		
<i>Botrychium matricariifolium</i>	CR	VU	EN	NT	
<i>Botrychium multifidum</i>	VU	NT	NT	DD	
<i>Botrychium virginianum</i>	NA	VU	EN		
<i>Brachmia dimidiella</i>	CR	EN	EN		
<i>Brachycaudus napelli</i>	NA	NE	VU		
<i>Brachycercus harrisella</i>	EN	VU	NA		
<i>Brachygonus dubius</i>	NA	CR	NA		

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Brachyopa cinerea</i>	NT	VU	NT		
<i>Brachyopa panzeri</i>	NA	NT	NA		
<i>Brachyzepe radiata</i>	VU	NE	NA		
<i>Brachyptera braueri</i>	NA	VU	NA		
<i>Brachytemnus porcatus</i>	NA	NT	NA		
<i>Brachythecium tommasinii</i>	VU	NT	EN		
<i>Bracomorpha rector</i>	NA	NE	RE		
<i>Brevicornu affine</i>	DD	NA	NA		
<i>Brevicornu disjunctum</i>	VU	NA	NA		
<i>Brevicornu occidentale</i>	VU	NA	VU		
<i>Bromus benekenii</i>	NA	NT	CR		
<i>Bryhnia novae-angliae</i>	NA	VU	NA		
<i>Bryodemella tuberculata</i>	NA	VU	CR	VU	
<i>Bryoglossum rehmi</i>	NE	NE	NT		
<i>Bryoria bicolor</i>	NT	EN	EN		
<i>Bryoria nadvornikiana</i>	NT	NT	NT		
<i>Bryoria nitidula</i>	NT	EN	VU		
<i>Bryoria smithii</i>	VU	CR	EN		
<i>Bryoria tenuis</i>	VU	EN	CR		
<i>Bryotropha purpurella</i>	EN	NT	VU		
<i>Bubo</i>	EN	VU	EN	LC	LC
<i>Bubo scandiacus</i>	EN <sup>o</sup>	CR	CR	LC	LC
<i>Bucculatrix albedinella</i>	EN	NT	EN		
<i>Bucculatrix argentsignella</i>	NA	NA	CR		
<i>Bucculatrix latviaella</i>	NA	NA	CR		
<i>Buchwaldoboletus lignicola</i>	NA	DD	NT		
<i>Buellia epigaea</i>	VU	CR	NA		
<i>Buellia violaceofusca</i>	CR	NT	NA		
<i>Bulgarica cana</i>	DD	NT	EN		
<i>Bunodophoron melanocarpum</i>	NT	NA	NA		
<i>Buprestis novemmaculata</i>	EN	VU	VU		
<i>Buprestis splendens</i>	NA	RE	NA	EN	EN
<i>Buvatina obscurella</i>	VU	NT	NA		
<i>Byssoloma marginatum</i>	VU	CR	NA		
<i>Cacopsylla affinis</i>	VU	NE	RE		
<i>Cacopsylla rhamnocola</i>	VU	NE	VU		
<i>Cacopsylla visci</i>	DD	NE	NA		
<i>Caenis macrura</i>	NA	NT	NA		
<i>Caenolyda reticulata</i>	VU	NE	NT		
<i>Caenophanes incompletus</i>	NA	NE	DD		
<i>Calicium abietinum</i>	EN	VU	EN		
<i>Calicium denigratum</i>	NT	NT	NT		
<i>Calicium lenticulare</i>	EN	CR	RE		
<i>Calicium quercinum</i>	CR	VU	CR		
<i>Caliprobola speciosa</i>	NA	EN	NA		
<i>Caliroa cinxia</i>	NA	NE	EN		
<i>Callicera aenea</i>	VU	NT	NA		
<i>Callicera aurata</i>	VU	NT	NA		
<i>Callimorpha dominula</i>	NA	NT <sup>o</sup>	NT		
<i>Callisto insperatella</i>	NT	NE	NT		
<i>Calocybe chrysenteron</i>	NA	NE	NT		
<i>Calocybe onychina</i>	NT	NT	NT		
<i>Caloplaca coralliza</i>	DD	VU	NA		
<i>Caloplaca demissa</i>	VU	NE	NA		
<i>Caloplaca furfuracea</i>	NE	EN	RE		
<i>Caloplaca lucifuga</i>	VU	NT	CR		
<i>Caloplaca pleiophora</i>	NA	NA	RE		
<i>Caloplaca proteus</i>	NA	CR	NA		
<i>Caloplaca suspiciosa</i>	NA	DD	NT		
<i>Caloplaca tristiuscula</i>	NE	DD	NA		
<i>Caloplaca ulcerosa</i>	EN	EN	NA		
<i>Caloptilia cuculipennella</i>	NT	VU	EN		
<i>Caloptilia onustella</i>	NA	NA	NT		
<i>Calvia quindecimguttata</i>	NA	NA	RE		
<i>Calyciphora albodactyla</i>	CR	VU	VU		
<i>Calypso bulbosa</i>	NA	NT	VU	NT	
<i>Camarophyllopsis atropuncta</i>	EN	NT	NA		
<i>Camarophyllopsis foetens</i>	VU	NT	VU		
<i>Camarophyllopsis hymenocephala</i>	EN	VU	NA		
<i>Camarophyllopsis micacea</i>	EN	NT	NA		

(continued on next page)

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Camarophylloopsis schulzeri</i>	NT	NT	NT		
<i>Camarophyllus lacmus</i>	NT	VU	NT		
<i>Camarops lutea</i>	NA	NT	NA		
<i>Camarops polysperma</i>	NA	NT	NT		
<i>Camarops pugillus</i>	NA	DD	NA		
<i>Camarops tubulina</i>	NT	NT	NE		
<i>Campanula barbata</i>	NT	NA	NA		
<i>Campanula cervicaria</i>	NT	NT	VU		
<i>Camponotus fallax</i>	NA	CR	NA		
<i>Camponotus vagus</i>	VU	RE	VU		
<i>Candelabrochaete septocystidia</i>	VU	NT	NE		
<i>Candelariella kuusamoënsis</i>	NE	NE	NT		
<i>Canis lupus</i>	CR	VU	EN	LC	LC
<i>Cantharellus melanoxeros</i>	NT	NT	NA		
<i>Capnia nigra</i>	NA	DD	NA		
<i>Capnia vidua</i>	NA	DD	NA		
<i>Capperia britanniodactylus</i>	EN	NA	NA		
<i>Carabus convexus</i>	RE	VU	VU		
<i>Carabus intricatus</i>	NA	VU	NA		LR/nt
<i>Cardiophorus asellus</i>	NA	NT	VU		
<i>Cardiophorus gramineus</i>	NA	CR	NA	NT	
<i>Carex atherodes</i>	NA	VU	NT	DD	LC
<i>Carex hartmanii</i>	VU	VU	EN		
<i>Carex heleonastes</i>	NT	EN	VU		DD
<i>Carex pendula</i>	NA	RE	NA		
<i>Carex rhynchophysa</i>	VU	NT	NT		
<i>Carex stylosa</i>	EN	NA	NA	LC	
<i>Carlina vulgaris vulgaris</i>	NT	NA	NA		
<i>Carphacis striatus</i>	NA	VU	NT		
<i>Carphoborus cholodkovskyi</i>	NT	NT	VU		
<i>Carphoborus minimus</i>	NA	NA	VU		
<i>Carphoborus teplouchovi</i>	NA	NT	NA		
<i>Carpodacus erythrinus</i>	VU	VU	NT	LC	LC
<i>Cartodere satelles</i>	VU	NA	NA		
<i>Caryocolum blandelloides</i>	NT	NT	EN		
<i>Caryocolum huebneri</i>	NA	NT	NA		
<i>Caryocolum petryi</i>	NA	VU	CR		
<i>Caryocolum schleichi</i>	NA	EN	EN		
<i>Caryocolum visciariella</i>	NT	NT	NA		
<i>Catapyrenium psoromoides</i>	EN	VU	CR		
<i>Catillaria ameibospora</i>	NA	NE	DD		
<i>Catillaria minuta</i>	NA	NT	NA		
<i>Catillochroma pulverea</i>	NA	VU	NA		
<i>Catocala pacta</i>	NA	VU	NT		
<i>Celothelium ischnobelum</i>	NE	CR	NA		
<i>Celypha aurofasciana</i>	NT	VU	NA		
<i>Cenocoelius analis</i>	NA	NE	DD		
<i>Centromerus pabulator</i>	DD	NT	NA		
<i>Centromerus persimilis</i>	NA	DD	NT		
<i>Cephalanthera damasonium</i>	NA	EN	NA		LC
<i>Cephalanthera rubra</i>	EN	VU	CR		LC
<i>Cephalcia alashanica</i>	NA	NE	NT		
<i>Cephalcia erythrogaster</i>	NA	NE	NT		
<i>Cephalcia masuttii</i>	NA	NA	RE		
<i>Cephalozia lacinulata</i>	NA	NA	RE		
<i>Cephalozia macounii</i>	NA	CR	CR		
<i>Cephaloziella massalongi</i>	NE	DD	CR		
<i>Cephaloziella stellulifera</i>	NE	DD	DD		
<i>Ceraceomyces sulphurinus</i>	NA	VU	VU		
<i>Ceraclea excisa</i>	NA	NT	NA		
<i>Cerambyx cerdo</i>	NA	CR	NA	NT	VU
<i>Cerambyx scopolii</i>	NT	NT	NA		LC
<i>Ceratinella major</i>	NA	DD	NA		
<i>Ceratocombus corticalis</i>	NA	NA	VU		
<i>Ceratophyllus indages indages</i>	NA	NA	VU		
<i>Ceriana conopsoides</i>	VU	NT	NT		
<i>Ceriporia excelsa</i>	NT	NT	NT		
<i>Ceriporia metamorphosa</i>	VU	NA	NA		
<i>Ceriporiopsis subrufa</i>	DD	NA	NA		
<i>Cerocephala cornigera</i>	NT	NE	NA		
<i>Ceruchus chrysomelinus</i>	EN	EN	EN	NT	NT



Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Cerylon impressum</i>	CR	VU	NT		
<i>Cetrelia olivetorum</i>	VU	CR	EN		
<i>Ceutorhynchus larvatus</i>	NA	NA	NT		
<i>Ceutorhynchus pallidicornis</i>	NA	NT	VU		
<i>Chaenotheca cinerea</i>	EN	EN	CR		
<i>Chaenotheca gracilentia</i>	NT	VU	VU		
<i>Chaenotheca hispidula</i>	VU	NT	RE		
<i>Chaenotheca hygrophila</i>	EN	NA	EN		
<i>Chaenotheca laevigata</i>	VU	NT	VU		
<i>Chaenotheca sphaerocephala</i>	EN	VU	VU		
<i>Chaenotheca subrosceda</i>	NT	NT	NT		
<i>Chaenothecopsis fennica</i>	NT	NT	NT		
<i>Chaenothecopsis haematopus</i>	NA	VU	NE		
<i>Chaenothecopsis montana</i>	VU	DD	NT		
<i>Chaenothecopsis rubescens</i>	NA	NA	RE		
<i>Chaenothecopsis viridialba</i>	NT	NT	NT		
<i>Chaenothecopsis zebrina</i>	NA	DD	NA		
<i>Chaetodermella luna</i>	NT	NT	NA		
<i>Chaetosiphella berlesei</i>	NA	NE	DD		
<i>Chalazion sociabile</i>	DD	NA	NA		
<i>Chalcophora mariana</i>	CR	EN	RE		
<i>Chalcosyrphus nigripes</i>	NA	VU	DD		
<i>Chalcosyrphus piger</i>	EN	NT	VU		
<i>Chamaemyces fracidus</i>	CR	EN	VU		
<i>Chamonixia caespitosa</i>	NT	VU	EN		
<i>Chanoma vorbringeri</i>	DD	DD	NA		
<i>Charmon cruentatus</i>	NA	NE	DD		
<i>Cheilosia barbata</i>	NA	NA	DD		
<i>Cheilosia fasciata</i>	NT	NA	NA		
<i>Cheilosia vulpina</i>	VU	NA	NA		
<i>Cheiracanthium pennyi</i>	NA	EN	NA		
<i>Cheiridium museorum</i>	VU	NT	NA		
<i>Chernes vicinus</i>	NA	DD	NA		
<i>Chimaphila umbellata</i>	EN	EN	NT	VU	
<i>Chionodes ignorantellus</i>	NT	NT	NT		
<i>Chloantha hyperici</i>	NA	NT	NA		
<i>Chlorita dumosa</i>	NA	EN	NT		
<i>Chlorophorus herbstii</i>	CR	VU	EN		LC
<i>Chlorophorus varius</i>	NA	DD	NA		LC
<i>Choerades fuliginosus</i>	NA	NA	CR		
<i>Choerades igneus</i>	VU	VU	EN		
<i>Choerades lapponicus</i>	NA	EN	CR		
<i>Choerades rufipes</i>	NA	RE	NA		
<i>Choragus horni</i>	NE	NT	NA		
<i>Choragus sheppardi</i>	NT	VU	VU		
<i>Chromosera cyanophylla</i>	CR	NE	NA		
<i>Chrysis brevitarsis</i>	NA	NT	EN		
<i>Chrysis fasciata</i>	NA	CR	NA		
<i>Chrysis graelsii</i>	NA	NA	EN		
<i>Chrysis ignita</i>	VU	NA	NA		
<i>Chrysis iris</i>	NA	NT	CR		
<i>Chrysis rutilans</i>	NA	NA	NT		
<i>Chrysis vanlithi</i>	NA	DD	NA		
<i>Chrysis westerlundi</i>	NA	NA	NT		
<i>Chrysoclista linneella</i>	NT	VU	VU		
<i>Chrysopa commata</i>	NA	NA	NT		
<i>Chrysopa dasyptera</i>	NA	NA	NT		
<i>Chrysopilus asiliformis</i>	NA	EN	NA		
<i>Chrysopilus erythropthalmus</i>	NA	VU	NA		
<i>Chrysopilus laetus</i>	NA	VU	NA		
<i>Chrysosplenium tetrandrum</i>	NA	NT	NA		
<i>Chrysotoxum octomaculatum</i>	VU	EN	RE		
<i>Chrysura radians</i>	VU	NT	NA		
<i>Cicadetta montana</i>	NT	NT	EN		
<i>Ciconia nigra</i>	NA	RE	NA	LC	LC
<i>Cimbex fagi</i>	NA	DD	NA		
<i>Cinara hyperophila</i>	NA	NE	DD		
<i>Cinara pinihabitans</i>	NA	NE	VU		
<i>Cinara piniphila</i>	NA	NA	VU		
<i>Cinara smolandiae</i>	NA	NE	VU		

(continued on next page)

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Cinereomyces lenis</i>	NT	VU	NT		
<i>Cinetus antennatus</i>	NT	NA	NA		
<i>Cinetus breviflagellatus</i>	NT	NA	NA		
<i>Cinna latifolia</i>	NT	VU	NT		LC
<i>Circus cyaneus</i>	EN	NT	VU	NT	LC
<i>Cis fusciclavis</i>	NA	NT	NA		
<i>Cis rugulosus</i>	NA	NT	NE		
<i>Cladius grandis</i>	NT	NE	NE		
<i>Cladius ulmi</i>	NT	NE	NE		
<i>Cladonia callosa</i>	NT	NA	NA		
<i>Cladonia incrasata</i>	CR	NT	CR		
<i>Cladonia krogiana</i>	NT	NA	NA		
<i>Cladonia parasitica</i>	NT	NT	VU		
<i>Cladosporium arthoniae</i>	NA	DD	NA		
<i>Clastobasis alternans</i>	NA	NE	DD		
<i>Clauxouzia chalybeoides</i>	NE	NT	DD		
<i>Clausilia dubia</i>	DD	NT	CR		
<i>Clavaria asperulospora</i>	EN	VU	EN		
<i>Clavaria atrofusca</i>	NA	NE	CR		
<i>Clavaria flavipes</i>	VU	VU	NE		
<i>Clavaria pullei</i>	VU	EN	NA		
<i>Clavariadelphus helveticus</i>	NA	VU	NA		
<i>Clavicornia cristata</i>	CR	CR	EN		
<i>Clavulicium macounii</i>	VU	VU	NA		
<i>Clavulinopsis cinereoides</i>	NT	VU	NA		
<i>Clavulinopsis umbrinella</i>	NT	NT	NA		
<i>Clepsis illustrana</i>	NA	DD	EN		
<i>Clepsis neglectana</i>	NA	VU	EN		
<i>Clepsis nybomi</i>	NA	DD	NA		
<i>Clibanites paradoxa</i>	NA	NA	DD		
<i>Cliorismia ardea</i>	NA	VU	NA		
<i>Cliostomum corrugatum</i>	EN	NT	EN		
<i>Cliostomum leprosum</i>	VU	NT	NT		
<i>Clitellaria ephippium</i>	EN	VU	NA		
<i>Clitocybe gilvaoides</i>	NA	NA	NT		
<i>Clitocybe globispora</i>	NA	NA	DD		
<i>Clitopilus paxilloides</i>	VU	NA	NA		
<i>Cloeon schoenemundi</i>	NA	VU	NA		
<i>Cnephasia alticolana</i>	NA	NA	EN		
<i>Coccotrema citrinescens</i>	NT	NA	NA		
<i>Cochliarium cuneiventris</i>	DD	VU	NA		
<i>Cochlicopa nitens</i>	NA	EN	NA		
<i>Cochlodina orthostoma</i>	NA	NA	VU		LR/lc
<i>Cochylidia heydeniana</i>	NT	NT	EN		
<i>Coelioxys conoidea</i>	NA	CR	VU		LC
<i>Coelioxys lanceolata</i>	EN	NT	VU		LC
<i>Coeloides filiformis</i>	NA	NE	VU		
<i>Coelosia limpida</i>	DD	NE	NE		
<i>Coelotes atropos</i>	NA	NT	NA		
<i>Coenomyia ferruginea</i>	NA	EN	NA		
<i>Coenonympha hero</i>	EN	NT	NA	VU	
<i>Coleocentrus caligatus</i>	NA	NE	VU		
<i>Coleocentrus exareolatus</i>	NA	NA	RE		
<i>Coleocentrus excitator</i>	NA	NE	NT		
<i>Coleocentrus heteropus</i>	NA	NE	RE		
<i>Coleophora adjectella</i>	VU	EN	NA		
<i>Coleophora albella</i>	VU	EN	EN		
<i>Coleophora amellivora</i>	NA	EN	EN		
<i>Coleophora badiipennella</i>	EN	NT	EN		
<i>Coleophora carelica</i>	NA	NA	CR		
<i>Coleophora colutella</i>	VU	RE	VU		
<i>Coleophora filaginella</i>	NA	NA	EN		
<i>Coleophora follicularis</i>	NA	NT	CR		
<i>Coleophora gallipennella</i>	NT	NT	NA		
<i>Coleophora hackmani</i>	EN	VU	EN		
<i>Coleophora lassella</i>	NA	DD	NA		
<i>Coleophora lineolea</i>	NA	NT	NA		
<i>Coleophora lixella</i>	NA	NT	EN		
<i>Coleophora pulmonariella</i>	NA	CR	NA		
<i>Coleophora solitariella</i>	NA	VU	NT		
<i>Coleophora sylvaticella</i>	VU	NA	NA		

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Coleosporium pulsatillae</i>	NA	NA	EN		
<i>Collema conglomeratum</i>	EN	NA	NA		
<i>Collema curtisporum</i>	EN	VU	CR		
<i>Collema fragrans</i>	CR	EN	CR		
<i>Collema occultatum</i>	VU	NT	DD		
<i>Coltricia cinnamomea</i>	VU	VU	CR		
<i>Colydium elongatum</i>	EN	EN	NA		
<i>Colydium filiforme</i>	RE	EN	NA		
<i>Conalia baudii</i>	NA	NA	CR		
<i>Conferticum ravum</i>	EN	NT	VU		
<i>Coniocleonus hollbergi</i>	VU	VU	NT		
<i>Coniocleonus nebulosus</i>	RE	RE	VU		
<i>Conobathra tumidana</i>	NT	VU	NA		
<i>Conohypha albocremaea</i>	VU	VU	NA		
<i>Coprinopsis insignis</i>	NA	NT	NA		
<i>Coprinopsis stangliana</i>	NA	NA	VU		
<i>Coracias garrulus</i>	NA	RE	NA	LC	LC
<i>Coronella austriaca</i>	NT	VU	VU		LC
<i>Corticaria alleni</i>	NA	VU	VU		
<i>Corticaria crenicollis</i>	NA	NT	NA		
<i>Corticaria inconspicua</i>	NA	DD	VU		
<i>Corticaria planula</i>	NA	RE	VU		
<i>Corticeus fasciatus</i>	CR	VU	NA		
<i>Corticeus fraxini</i>	EN	VU	NT		
<i>Cortinarius albogaudis</i>	NA	NA	VU		
<i>Cortinarius alboglobosus</i>	NE	NA	NT		
<i>Cortinarius alcalinophilus</i>	NA	VU	NA		
<i>Cortinarius anisochrous</i>	NA	NE	VU		
<i>Cortinarius anserinus</i>	EN <sup>o</sup>	NT	NA		
<i>Cortinarius aprinus</i>	VU	NA	NA		
<i>Cortinarius arcifolius</i>	EN	VU	NA		
<i>Cortinarius arcuatorum</i>	NA	VU	NA		
<i>Cortinarius areni-silvae</i>	NT <sup>o</sup>	NT	NA		
<i>Cortinarius argenteolilacinus</i>	VU	EN	NE		
<i>Cortinarius atrovirens</i>	NA	VU	NA		
<i>Cortinarius aureifolius</i>	NA	NE	NT		
<i>Cortinarius aureocalceolatus</i>	NA	DD	NA		
<i>Cortinarius balteatoalbus</i>	EN	NE	NE		
<i>Cortinarius barbaricus</i>	NT	VU	DD		
<i>Cortinarius bovinaster</i>	NA	NA	NT		
<i>Cortinarius bovinus</i>	NT	VU	NT		
<i>Cortinarius bulbopodius</i>	EN	VU	NA		
<i>Cortinarius bulliardii</i>	NA	VU	NA		
<i>Cortinarius caeruleus</i>	NA	VU	NA		
<i>Cortinarius caesiocanescens</i>	EN	VU	VU		
<i>Cortinarius caesiocinctus</i>	EN	VU	NT		
<i>Cortinarius caesiocortinatus</i>	EN	VU	NA		
<i>Cortinarius caesiolatens</i>	NA	EN	NA		
<i>Cortinarius cagei</i>	NT	VU	NA		
<i>Cortinarius camptoros</i>	EN	VU	NA		
<i>Cortinarius catharinae</i>	EN	DD	NA		
<i>Cortinarius cedretorum</i>	NA	DD	NA		
<i>Cortinarius chevassutii</i>	CR	NA	NA		
<i>Cortinarius cinnabarinus</i>	VU	NT	EN		
<i>Cortinarius cisticola</i>	EN	NT	NA		
<i>Cortinarius citrinoolivaceus</i>	NA	VU	NA		
<i>Cortinarius citrinus</i>	NA	NT	NA		
<i>Cortinarius coeruleus</i>	EN	VU	NA		
<i>Cortinarius cordatae</i>	CR	VU	NA		
<i>Cortinarius cotoneus</i>	VU	NT	NA		
<i>Cortinarius croceocoeruleus</i>	EN	NT	NA		
<i>Cortinarius dalecarlicus</i>	EN	EN	VU		
<i>Cortinarius dionysae</i>	NA	NT	VU		
<i>Cortinarius diosmus</i>	EN	VU	NT		
<i>Cortinarius ectypus</i>	NT	VU	NT		
<i>Cortinarius elegantissimus</i>	NA	VU	NA		
<i>Cortinarius eucaeruleus</i>	EN	VU	NA		
<i>Cortinarius flavovirens</i>	EN	VU	VU		
<i>Cortinarius foetens</i>	NA	EN	NA		
<i>Cortinarius fraudulentus</i>	NT	VU	NA		

(continued on next page)

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Cortinarius fulvocitrinus</i>	NA	VU	NA		
<i>Cortinarius fuscobovinus</i>	NA	NE	NT		
<i>Cortinarius fuscoперonatus</i>	VU	VU	CR		
<i>Cortinarius gracilior</i>	EN	DD	NA		
<i>Cortinarius haasii</i>	NA	EN	NA		
<i>Cortinarius harcynicus</i>	NA	NT	NA		
<i>Cortinarius hinnuleoarmillatus</i>	NA	VU	VU		
<i>Cortinarius holophaeus</i>	EN	NA	NA		
<i>Cortinarius humicola</i>	EN	VU	NA		
<i>Cortinarius humolens</i>	CR	VU	NA		
<i>Cortinarius inexpectatus</i>	EN	VU	NA		
<i>Cortinarius ionodactylus</i>	NA	VU	NA		
<i>Cortinarius langeorum</i>	NA	VU	NA		
<i>Cortinarius latobalteatus</i>	VU	NA	NA		
<i>Cortinarius lepidoides</i>	NA	DD	NA		
<i>Cortinarius luhmannii</i>	NA	VU	NA		
<i>Cortinarius lustrabilis</i>	DD	NA	DD		
<i>Cortinarius lustratus</i>	VU	NA	NA		
<i>Cortinarius luteoimmarginatus</i>	EN	VU	NA		
<i>Cortinarius magicus</i>	NA	NT	NA		
<i>Cortinarius majoranae</i>	NA	VU	NA		
<i>Cortinarius meinhardii</i>	VU	NT	VU		
<i>Cortinarius melanotus</i>	NA	VU	NA		
<i>Cortinarius moenne-locozii</i>	NA	EN	NA		
<i>Cortinarius molochinus</i>	CR	DD	NA		
<i>Cortinarius multififormium</i>	EN	EN	NA		
<i>Cortinarius nanceiensis</i>	VU	VU	NA		
<i>Cortinarius niveoglobosus</i>	NA	DD	EN		
<i>Cortinarius odoratus</i>	NA	EN	NA		
<i>Cortinarius olearioides</i>	VU	NT	NA		
<i>Cortinarius osloensis</i>	EN	NA	NA		EN
<i>Cortinarius osmophorus</i>	EN	VU	NA		
<i>Cortinarius parevernus</i>	DD	NA	NA		
<i>Cortinarius phaeosmus</i>	VU	NT	NA		
<i>Cortinarius phrygianus</i>	EN	NT	NT		
<i>Cortinarius pini</i>	VU	VU	NA		
<i>Cortinarius platypus</i>	NA	EN	NA		
<i>Cortinarius praestans</i>	NT	NT	NA		
<i>Cortinarius prasinocyanus</i>	CR	EN	NA		
<i>Cortinarius prasinus</i>	CR	EN	NA		
<i>Cortinarius pseudoarcaratorum</i>	NA	VU	NA		
<i>Cortinarius pseudoglaucopus</i>	EN	VU	NT		
<i>Cortinarius pseudovulpinus</i>	EN	EN	NA		
<i>Cortinarius quercilicis</i>	NA	VU	NA		
<i>Cortinarius rapaceotomentosus</i>	NA	VU	NA		
<i>Cortinarius rubrovioleipes</i>	EN	NA	NT		
<i>Cortinarius rufoolivaceus</i>	CR	NT	NA		
<i>Cortinarius russeoides</i>	NA	NT	NA		
<i>Cortinarius saporatus</i>	VU	EN	NA		
<i>Cortinarius sodagnitus</i>	CR	EN	NA		
<i>Cortinarius spectabilis</i>	NA	VU	NA		
<i>Cortinarius splendens</i>	EN	VU	NA		
<i>Cortinarius suaveolens</i>	EN	EN	NA		
<i>Cortinarius terpsichores</i>	EN	VU	NA		
<i>Cortinarius tiliae</i>	EN	NA	NA		
<i>Cortinarius tofaceus</i>	VU	NT	NE		
<i>Cortinarius turgidus</i>	DD	VU	NA		
<i>Cortinarius variiformis</i>	NA	VU	NA		
<i>Cortinarius vesterholtii</i>	EN	EN	NA		
<i>Cortinarius violaceomaculatus</i>	VU	VU	NA		
<i>Cortinarius vulpinus</i>	EN	NT	NA		
<i>Cortinarius xanthochlorus</i>	NA	VU	NA		
<i>Cortinarius xanthophyllus</i>	NA	VU	NA		
<i>Cortinarius xanthosuvavis</i>	NA	VU	NA		
<i>Corydalis cava</i>	NA	NT	NA		
<i>Corynthis amoena</i>	NA	NA	VU		
<i>Cosmia affinis</i>	NA	EN	NA		
<i>Cosmia diffinis</i>	NA	VU	NA		
<i>Cosmia pyralina</i>	NA	NT	NT		
<i>Cosmotriche lobulina</i>	VU	NT	NT		
<i>Cossonus cylindricus</i>	NA	EN	VU		

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Cossonus linearis</i>	NA	VU	NA		
<i>Cossonus parallelepipedus</i>	EN	VU	CR		
<i>Costaconvexa polygrammata</i>	NA	NT <sup>o</sup>	NA		
<i>Cotoneaster kullensis</i>	NA	EN	NA		
<i>Cotylidia muscigena</i>	NE	NA	VU		
<i>Cotylidia pannosa</i>	NA	EN	NA		
<i>Crabro maeklini</i>	NT	NT	NT		
<i>Craniophora ligustri</i>	NA	NT	NA		
<i>Craterellus cinereus</i>	VU	NT	NA		
<i>Crepidodera lamina</i>	NT	NA	NA		
<i>Crepidophorus mutilatus</i>	EN	VU	EN	NT	NT
<i>Crepidotus cinnabarinus</i>	VU	VU	NA		
<i>Crepis praemorsa</i>	NT	NT	EN		
<i>Cresponea chloroconia</i>	NA	NA	RE		
<i>Cresponea premnea</i>	NA	DD	NA		
<i>Cresporhopsis wienkampii</i>	NA	NA	DD		
<i>Criorhina floccosa</i>	NA	VU	NA		
<i>Cristinia gallica</i>	VU	DD	VU		
<i>Cristinia rhenana</i>	DD	NA	NA		
<i>Crossocerus binotatus</i>	NA	EN	NA		
<i>Crossocerus exiguus</i>	NA	NT	NT		
<i>Crustoderma corneum</i>	NT	NT	NT		
<i>Crustoderma dryinum</i>	VU	VU	NT		
<i>Crustomyces subabruptus</i>	NE	VU	NE		
<i>Cryphaea heteromalla</i>	EN	CR	NA		
<i>Cryptocephalus cordiger</i>	NA	VU	RE		
<i>Cryptocephalus exiguus</i>	CR	VU	VU		
<i>Cryptocephalus flavipes</i>	NA	NA	RE		
<i>Cryptocephalus saliceti</i>	NA	NA	VU		
<i>Cryptolestes duplicatus</i>	NA	VU	NA		
<i>Cryptolestes weisei</i>	NA	NA	VU		
<i>Cryptomyzus korschelti</i>	NA	NE	NT		
<i>Cryptophagus cylindrellus</i>	NA	NT	NA		
<i>Cryptophagus fallax</i>	VU	NT	NT		
<i>Cryptophagus fuscicornis</i>	VU	NT	NT		
<i>Cryptophagus intermedius</i>	NA	NT	NA		
<i>Cryptophagus laticollis</i>	NA	DD	NA		
<i>Cryptosphaeria eunomia</i>	NE	NT	NA		
<i>Ctenophora nigriceps</i>	NA	DD	NE		
<i>Ctenophora ornata</i>	NA	VU	NA		
<i>Cucujus cinnaberinus</i>	NT	EN	CR	NT	NT
<i>Cucujus haematodes</i>	NA	NA	RE	EN	
<i>Cyanopterus flavator</i>	NA	NE	RE		
<i>Cyanopterus nigrator</i>	NA	NE	RE		
<i>Cyanopterus obscuripennis</i>	NA	NE	RE		
<i>Cyanostolus aeneus</i>	NT	NT	VU		
<i>Cyclophora annularia</i>	NA	NA	NT		
<i>Cydia cornucopiae</i>	NA	EN	VU		
<i>Cydia gemmiferana</i>	NA	NT	NA		
<i>Cydia leguminana</i>	NA	EN	EN		
<i>Cydia pallifrontana</i>	NA	NT	NA		
<i>Cyllodes ater</i>	NA	VU	NT		
<i>Cynips quercusfolii</i>	NA	NE	VU		
<i>Cypha nitida</i>	EN	NT	NA		
<i>Cyphelium karelicum</i>	VU	VU	VU		
<i>Cyphelium lucidum</i>	VU	DD	NA		
<i>Cyphelium pinicola</i>	VU	VU	NA		
<i>Cyphelium sessile</i>	NA	VU	RE		
<i>Cyphelium tigillare</i>	NT	NT	VU		
<i>Cyrtanaspis phalerata</i>	NA	VU	CR		
<i>Cyrtopogon flavimanus</i>	NA	NA	NT		
<i>Cyrtopogon lapponicus</i>	NA	EN	DD		
<i>Cyrtopogon pulchripes</i>	NA	NA	VU		
<i>Cystodermella ambrosii</i>	NA	NA	NT		
<i>Cystolepiota adulterina</i>	EN	VU	VU		
<i>Cystolepiota bucknallii</i>	EN	NT	NA		
<i>Cystolepiota hetieri</i>	EN	NT	NA		
<i>Cystolepiota icterina</i>	NA	VU	NA		
<i>Cystolepiota moelleri</i>	NA	VU	EN		
<i>Cystopteris sudetica</i>	EN	NA	NA		

(continued on next page)

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Dacne rufifrons</i>	NA	RE	NA	DD	
<i>Dactylospora lobariella</i>	NA	DD	NA		
<i>Daldinia fissa</i>	NE	DD	NA		
<i>Danacaea nigritarsis</i>	NA	DD	NA		
<i>Danacaea pallipes</i>	NA	RE	NA		
<i>Dasystroma salicella</i>	NA	VU	NA		
<i>Dasytes nigrocyaneus</i>	EN	VU	NA		
<i>Decantha borkhauseni</i>	EN	NT	VU		
<i>Decapauropus helveticus</i>	DD	DD	NE		
<i>Decapauropus multiplex</i>	DD	NT	NA		
<i>Decapauropus tenellus</i>	NT	DD	NE		
<i>Decapauropus verticillatus</i>	DD	NT	NA		
<i>Degelia atlantica</i>	NT	NA	NA		
<i>Degelia cyanoloma</i>	NT	NA	NA		
<i>Deltote deceptoris</i>	NA	VU <sup>o</sup>	NA		
<i>Dendrochernes cyrneus</i>	VU	NT	NT		
<i>Dendrocopos medius</i>	NA	RE	NA		
<i>Denisia albimaculea</i>	NA	EN	NA		
<i>Denisia stroemella</i>	EN	NT	VU		
<i>Denticollis rubens</i>	EN	EN	NA		LC
<i>Dentipellis fragilis</i>	NT	NT	NT		
<i>Dermestoides sanguinicornis</i>	NA	RE	NA		
<i>Dermoloma josserandii</i>	EN	VU	VU		
<i>Dermoloma pseudocuneifolium</i>	VU	VU	VU		
<i>Desmazierella piceicola</i>	NA	NA	DD		
<i>Diaphorus exunguiculatus</i>	DD	NA	NA		
<i>Diasemia reticularis</i>	EN	CR	CR		
<i>Diastrophus mayri</i>	NA	NE	DD		
<i>Dicerca aenea</i>	CR	RE	NA		
<i>Dicerca alni</i>	NA	NT	VU		
<i>Dicerca furcata</i>	EN	VU	VU		
<i>Dicerca moesta</i>	VU	NT	VU		
<i>Dichelyma capillaceum</i>	NA	NT	EN		
<i>Dichoglena nigripennis</i>	NT	NT	NT		
<i>Dichomitus squalens</i>	EN	EN	VU		
<i>Dicranum muehlenbeckii</i>	NA	RE	NA		
<i>Dicranum viride</i>	NT	EN	EN		
<i>Dicycla oo</i>	NA	NT	NA		
<i>Didymodon glaucus</i>	NT	CR	NA		
<i>Didymodon sinuosus</i>	NA	EN	NA		
<i>Dimerella lutea</i>	EN	EN	CR		
<i>Dinetus pictus</i>	NA	NA	RE		
<i>Dioctria linearis</i>	NA	RE	NA		
<i>Diodontus tristis</i>	VU	VU	CR		
<i>Diphasiastrum tristachyum</i>	EN	VU	EN		
<i>Diplocephalus dentatus</i>	NA	DD	NA		
<i>Diplomitoporus crustulinus</i>	VU	VU	VU		
<i>Diplomitoporus flavescens</i>	VU	VU	NT		
<i>Diplotomma pharcidium</i>	NA	NE	VU		
<i>Dipoena braccata</i>	NA	VU	NA		
<i>Dipoena melanogaster</i>	VU	NT	NA		
<i>Dipogon vechti</i>	EN	NT	VU		
<i>Dircaea australis</i>	NA	VU	NA		
<i>Dircaea quadriguttata</i>	NA	RE	VU		
<i>Dirrhagofarsus attenuatus</i>	NA	NA	CR	DD	
<i>Disciseda candida</i>	CR	VU	NA		
<i>Disogmus quinquententatus</i>	NT	NA	NA		
<i>Ditomyia fasciata</i>	NA	RE	NA		
<i>Ditrichum pallidum</i>	NA	RE	NA		
<i>Ditylus laevis</i>	NA	NA	EN		
<i>Docosia flavicoxa</i>	NT	NE	NE		
<i>Docosia fuscipes</i>	NT	NE	NA		
<i>Dolichoderus quadripunctatus</i>	EN	NA	NA		
<i>Dolichomitus aciculatus</i>	NA	NA	NT		
<i>Dolichomitus agnoscendus</i>	NA	NE	NT		
<i>Dolichomitus dux</i>	NA	NE	VU		
<i>Dolichomitus messor</i>	NA	NE	NT		
<i>Dolichomitus sericeus</i>	NA	NA	NT		
<i>Dolichomitus speciosus</i>	NA	NE	VU		
<i>Doloploca punctulana</i>	NA	NT	NA		
<i>Dorcatoma ambjoerni</i>	NA	EN	NA		

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Dorcatoma janssoni</i>	NA	VU	NA		
<i>Dorcatoma minor</i>	NA	VU	NA		
<i>Doros profuges</i>	EN	NT	NT		
<i>Drapetes mordelloides</i>	NE	VU	EN		
<i>Drapetis incompleta</i>	DD	NE	NA		
<i>Drapetis ingrca</i>	VU	NE	NE		
<i>Drapetis stackelbergi</i>	NT	NA	NA		
<i>Dreposcia umbrina</i>	NA	VU	NA		
<i>Dromaeolus barnabita</i>	CR	CR	NA		LC
<i>Dufourea minuta</i>	RE	EN	VU	NT	
<i>Dynatosoma dihaeta</i>	NA	NE	NT		
<i>Dynatosoma majus</i>	NA	NE	NT		
<i>Dysaphis newskyi</i>	NA	NE	DD		
<i>Dysauxes ancilla</i>	NA	CR	NA		
<i>Dystebenna stephensi</i>	NA	VU	NA		
<i>Eana derivana</i>	NA	NT	NA		
<i>Ecclisopteryx dalecarlica</i>	NA	NT	NA		
<i>Echemus angustifrons</i>	NA	NT	NA		
<i>Echinoderma calcicola</i>	NA	EN	NA		
<i>Echinoderma echinacea</i>	EN	NT	NA		
<i>Echinoderma hystrix</i>	VU	EN	NA		
<i>Echinoderma jacobi</i>	VU	EN	NA		
<i>Echinoderma perplexa</i>	VU	VU	NA		
<i>Echinoderma pseudoasperula</i>	NT	VU	NA		
<i>Ectemnius fossorius</i>	RE	RE	NT		
<i>Ectoedemia amani</i>	EN	NT	NA		
<i>Ectoedemia liebwerdella</i>	VU	NA	NA		
<i>Ectrepesthoneura nigra</i>	NT	NA	NA		
<i>Ederranus sachalinensis</i>	NA	NA	RE		
<i>Eichleriella leucophaea</i>	NT	NA	NA		
<i>Eilema pygmaeolum</i>	NA	NT	EN		
<i>Elachista bruuni</i>	NA	NA	EN		
<i>Elachista chrysodesmella</i>	NA	EN	NA		
<i>Elachista cinereopunctella</i>	VU	VU	NA		
<i>Elachista eskoi</i>	EN	VU	VU		
<i>Elachista megerlella</i>	NA	NT	NA		
<i>Elachista occidentalis</i>	EN	NA	NT		
<i>Elachista ormithopodella</i>	NA	NA	NT		
<i>Elachista quadripunctella</i>	RE	EN	NA		
<i>Elachista tetragonella</i>	NA	EN	NT		
<i>Elachista unifasciella</i>	NA	NT	NA		
<i>Elampus constrictus</i>	NT	NT	NT		
<i>Elaphomyces aculeatus</i>	NA	EN	NA		
<i>Elaphomyces anthracinus</i>	NT	VU	NT		
<i>Elaphomyces maculatus</i>	VU	EN	NA		
<i>Elaphomyces septatus</i>	NA	EN	NA		
<i>Elaphomyces virgatosporus</i>	EN	VU	NA		
<i>Elasmomyces krjukowensis</i>	DD	VU	NA		
<i>Elater ferrugineus</i>	CR	VU	NA	NT	
<i>Elatobia fuliginosella</i>	NT	VU	VU		
<i>Electrogena affinis</i>	NT	VU	NA		
<i>Eledonoprius armatus</i>	NA	CR	NA		
<i>Elephantomyia (Elephantomyia) edwardsi</i>	NA	NE	VU		
<i>Eliomys quercinus</i>	NA	NA	RE	NT	NT
<i>Elixia flexella</i>	NT	NT	EN		
<i>Emberiza hortulana</i>	CR	VU	EN	LC	LC
<i>Emberiza rustica</i>	CR	VU	NT	VU	VU
<i>Empis dasychira</i>	DD	NA	NA		
<i>Ena montana</i>	NA	NT	NA	LC	LC
<i>Encalypta spathulata</i>	EN	EN	NA		
<i>Endocarpon psorodeum</i>	NA	VU	VU		
<i>Endothenia nigricostana</i>	NA	NT	EN		
<i>Enicmus brevicornis</i>	EN	VU	NA		
<i>Ennearthron pruinosulum</i>	NA	EN	NA		
<i>Enterographa crassa</i>	NE	EN	NA		
<i>Enterographa hutchinsiae</i>	NE	EN	NA		
<i>Entoloma ameides</i>	NT	NT	NE		
<i>Entoloma bloxamii</i>	VU	VU	NA		
<i>Entoloma callirhodon</i>	EN	NA	NA		
<i>Entoloma carneogriseum</i>	DD	DD	NE		

(continued on next page)

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Entoloma catalaunicum</i>	VU	NT	NE		
<i>Entoloma chloropolium</i>	NE	NT	NA		
<i>Entoloma coeruleoflocculosum</i>	VU	NA	NA		
<i>Entoloma corvinum</i>	NT	NT	NT		
<i>Entoloma dichroum</i>	VU	NT	NE		
<i>Entoloma griseorubidum</i>	NA	NT	NA		
<i>Entoloma prunuloides</i>	NT	NT	EN		
<i>Entoloma queletii</i>	NT	NT	VU		
<i>Entoloma querquedula</i>	NT	NA	NA		
<i>Entoloma roseum</i>	EN	EN	NA		
<i>Entoloma scabiosum</i>	NT	NT	NA		
<i>Entoloma strigosissimum</i>	NT	NT	EN		
<i>Entoloma testaceum</i>	DD	NA	NA		
<i>Entoloma turci</i>	NT	NT	NA		
<i>Entoloma viiduense</i>	NA	DD	DD		
<i>Entoloma weholtii</i>	EN	NA	NA		
<i>Entoloma xanthoserrulatum</i>	NA	NA	DD		
<i>Eopyrenula septemseptata</i>	NE	CR	NA		
<i>Ephemera glaucops</i>	NA	NT	NA		
<i>Epicallima formosella</i>	NA	CR	NA		
<i>Epicyptha limnophila</i>	VU	NE	NE		
<i>Epicyptha scatophora</i>	NA	NA	DD		
<i>Epipactis phyllanthos</i>	NA	VU	NA	LC	LC
<i>Epiphloeia byssina</i>	NE	VU	VU		
<i>Epipogium aphyllum</i>	VU	NT	VU		LC
<i>Eptesicus serotinus</i>	NA	EN <sup>o</sup>	NA	LC	LC
<i>Epuraea excisicollis</i>	NA	DD	NA		
<i>Epuraea fuscicollis</i>	NA	VU	NA		
<i>Epuraea silesiaca</i>	NA	VU	NT		
<i>Epyris bilineatus</i>	VU	NE	NA		
<i>Erastia salmonicolor</i>	NE	EN	VU		
<i>Erebia polaris</i>	NT	NA	NT		LC
<i>Eremobina pabulatricula</i>	EN	EN	NT		
<i>Ergates faber</i>	NA	NT	NA		LC
<i>Eriocampa dorpatica</i>	NA	NA	NT		
<i>Eriocampa umbratica</i>	NT	NE	NT		
<i>Erioderma pedicellatum</i>	CR	RE	NA		CR
<i>Ermodes articularis</i>	NA	DD	NA		
<i>Erysiphe prunastri</i>	NA	NA	NT		
<i>Ethmia dodecea</i>	NA	RE	NA		
<i>Ethmia quadrillella</i>	RE	NT	VU		
<i>Euceros pruinosus</i>	NA	NE	NT		
<i>Euchalcia modestoides</i>	NA	NA	NT		
<i>Eucnemis capucina</i>	EN	VU	NT		LC
<i>Euconnus wetherhallii</i>	VU	NT	NT		
<i>Eucosma saussureana</i>	EN	NT	EN		
<i>Eucosma scorzonerana</i>	EN	VU	DD		
<i>Eucosma suomiana</i>	VU	DD	VU		
<i>Eudicrana nigriceps</i>	NA	NE	VU		
<i>Eudonia laetella</i>	EN	NT	NT		
<i>Eulamprotes superbella</i>	NA	NT	VU		
<i>Eulithis pyropata</i>	NA	NA	NT		
<i>Eumerus grandis</i>	NA	EN	CR		
<i>Eupachygaster tarsalis</i>	NT	NT	NA		
<i>Eupelmus fuscipennis</i>	NA	NA	VU		
<i>Eupeodes biciki</i>	VU	NA	DD		
<i>Euphydryas aurinia</i>	NA	VU	EN		LC
<i>Eupithecia distinctaria</i>	NA	VU	NA		
<i>Eupithecia immundata</i>	NT	VU	VU		
<i>Eupithecia insigniata</i>	NA	NT	NA		
<i>Euplectus bonvouloiri</i>	NA	VU	NA		
<i>Euplectus duponti</i>	NA	NT	NA		
<i>Euplectus tholini</i>	NA	VU	NA		
<i>Eupteryx collina</i>	NA	NA	CR		
<i>Euroleon nostras</i>	NA	VU	NA		
<i>Eurydema dominulum</i>	NA	NT	NT		
<i>Euryptilium gillmeisteri</i>	VU	NA	NA		
<i>Eurytoma bruniventris</i>	NA	NE	NT		
<i>Eurytoma minutula</i>	NA	NE	DD		
<i>Eurytrichothrips affinis</i>	NA	NA	VU		
<i>Euryusa coarctata</i>	NA	VU	NA		



Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Euryusa optabilis</i>	NA	VU	NA		
<i>Euryusa sinuata</i>	EN	VU	NA		
<i>Eustrophus dermestoides</i>	NA	NA	CR		
<i>Euthiconus conicicollis</i>	EN	VU	NA		
<i>Eutypella dissepta</i>	EN	NT	NA		
<i>Eutypella stellulata</i>	VU	NT	NE		
<i>Euxoa adumbrata</i>	RE	NT	VU		
<i>Euxoa recussa</i>	NA	NT	NA		
<i>Euxoa vitta</i>	NA	NT	NA		
<i>Euzophera pinguis</i>	NT	NT	NT		
<i>Evagetes gibbulus</i>	NA	CR	RE		
<i>Evagetes subglaber</i>	EN	EN	EN		
<i>Evernia divaricata</i>	VU	VU	VU		
<i>Evernia illyrica</i>	NA	RE	NA		
<i>Evernia mesomorpha</i>	NT	VU	NT		
<i>Exechia nigrofusca</i>	NA	NE	NT		
<i>Exechia papyracea</i>	NA	NE	NT		
<i>Exechiopsis (Exechiopsis) distendens</i>	NA	NE	NT		
<i>Exechiopsis (Exechiopsis) grassatura</i>	VU	NE	DD		
<i>Exechiopsis (Exechiopsis) hammi</i>	NA	NE	NT		
<i>Exechiopsis (Exechiopsis) intersecta</i>	NA	NE	NT		
<i>Exechiopsis (Xenexechia) davatchii</i>	NA	NE	NT		
<i>Exechiopsis forcipata</i>	VU	NE	NA		
<i>Exeristes arundinis</i>	NA	NE	NT		
<i>Exeristes longiseta</i>	NA	NE	NT		
<i>Exeristes roborator</i>	NA	NE	NT		
<i>Exocentrus adpersus</i>	NA	NT	NA		
<i>Exoprosopa capucina</i>	NA	NA	NT		
<i>Fagivorina arenaria</i>	RE	EN	NA		
<i>Fenella monilicornis</i>	NA	NE	DD		
<i>Fenusia ulmi</i>	NT	NE	VU		
<i>Ferreola diffinis</i>	NA	VU	VU		
<i>Fibriciellum silvae-ryae</i>	DD	DD	DD		
<i>Fibricium lapponicum</i>	VU	VU	NT		
<i>Fibrodontia gossypina</i>	NA	DD	NA		
<i>Fischerula macrospora</i>	NA	EN	NA		
<i>Fistulina hepatica</i>	NT	NT	NT		
<i>Floccularia straminea</i>	CR	EN	NA		
<i>Fomitopsis rosea</i>	NT	NT	NT		
<i>Frantisekia mentschulensis</i>	NA	EN	NA		
<i>Frullania bolanderi</i>	VU	VU	NA		
<i>Frullania oakesiana</i>	EN	EN	CR		
<i>Funalia gallica</i>	NA	EN	NA		
<i>Funalia trogii</i>	VU	CR	VU		
<i>Fuscopannaria ahlneri</i>	EN	EN	NA		
<i>Fuscopannaria confusa</i>	EN	NT	CR		
<i>Fuscopannaria ignobilis</i>	NT	NA	NA		
<i>Fuscopannaria mediterranea</i>	NT	NT	CR		
<i>Fuscopannaria sampaiana</i>	VU	RE	NA		
<i>Gabrius bescidicus</i>	NA	VU	EN		
<i>Gagitodes sagittatus</i>	NA	NT	NT		
<i>Galeatus spinifrons</i>	CR	VU	EN		
<i>Galerina pruinatipes</i>	NA	NA	EN		
<i>Galeruca melanocephala</i>	NA	VU	RE		
<i>Galium rotundifolium</i>	NA	VU	NA		
<i>Galium schultesii</i>	NA	NA	CR		
<i>Galium stermeri</i>	NT	NA	NA		
<i>Gallinago media</i>	NT	NT	CR	LC	NT
<i>Ganoderma australe</i>	DD	EN	NA		
<i>Ganoderma pfeifferi</i>	NA	EN	NA		
<i>Ganoderma resinaceum</i>	NA	EN	NA		
<i>Gautieria graveolens s.lat.</i>	NA	VU	NA		
<i>Gazoryctra ganna</i>	NA	RE	NA		
<i>Geastrum berkeleyi</i>	NA	EN	NE		
<i>Geastrum corollinum</i>	NA	EN	NA		
<i>Geastrum coronatum</i>	CR	NT	NA		
<i>Geastrum elegans</i>	CR	EN	NE		
<i>Geastrum fornicatum</i>	CR	EN	NA		
<i>Geastrum minimum</i>	NT	VU	VU		
<i>Geastrum pseudolimbatum</i>	NA	VU	NA		

(continued on next page)

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Geastrum saccatum</i>	NA	EN	NE		
<i>Geastrum schmidelii</i>	CR	NT	EN		
<i>Gelatoporia subvermispota</i>	VU	NT	NT		
<i>Gelechia jakovlevi</i>	NA	NA	NT		
<i>Genea verrucosa</i>	NA	NT	NA		
<i>Gentianella campestris</i>	NT	NA	EN		
<i>Geoglossum simile</i>	NT	NT	NA		
<i>Geophilus carpophagus</i>	VU	VU	RE		
<i>Geopora cooperi</i>	NE	VU	NA		
<i>Geranium bohemicum</i>	NT	NT	NT		
<i>Geranium lanuginosum</i>	NA	EN	NA		
<i>Geranium palustre</i>	NA	EN	NA		
<i>Gerris gibbifer</i>	NA	NT	NA		
<i>Gilpinia fennica</i>	NA	NA	VU		
<i>Gilpinia socia</i>	NA	NA	NT		
<i>Gilpinia sp.cf.excisa</i>	NA	NA	VU		
<i>Glaucopsyche arion</i>	NA	NT	CR		
<i>Globicornis corticalis</i>	NA	NT	NA		
<i>Globicornis nigripes</i>	NA	NT	NA		
<i>Gloeocystidiellum clavuligerum</i>	DD	NA	NA		
<i>Gloeohypochnicium analogum</i>	EN	VU	NA		
<i>Gloeophyllum abietinum</i>	NT	NT	NT		
<i>Gloeophyllum carbonarium</i>	NA	EN	EN		
<i>Gloeophyllum protractum</i>	VU	VU	VU		
<i>Gloiodon strigosus</i>	NT	VU	NT		
<i>Gnathoncus nidorum</i>	NA	NT	VU		
<i>Gnophomyia acheron</i>	NA	NA	VU		
<i>Gnophomyia viridipennis</i>	NA	NA	VU		
<i>Gnorimoschema herbichi</i>	NA	VU	VU		
<i>Gnorimoschema nordlandicoellum</i>	NA	CR	VU		
<i>Gnorimoschema strelicellum</i>	NA	NA	EN		
<i>Gnorimoschema valesiellum</i>	NA	VU	VU		
<i>Gnorimus nobilis</i>	NT	NT	NA		LC
<i>Gnorimus variabilis</i>	NA	EN	NA	NT	
<i>Gnoriste apicalis</i>	EN	NE	VU		
<i>Gnoriste harcyniae</i>	NT	NE	NA		
<i>Gomphillus calycioides</i>	CR	NA	NA		
<i>Gomphus clavatus</i>	NT	VU	NT		
<i>Gonotropis gibbosa</i>	NA	DD	NA		
<i>Gootiella tremulae</i>	NA	NE	RE		
<i>Gorytes neglectus</i>	NA	NA	NT		
<i>Gorytes quinquecinctus</i>	NA	VU	NT		
<i>Gracillaria loriolella</i>	VU	NA	NA		
<i>Grammoptera abdominalis</i>	NA	DD	NA		
<i>Graphis elegans</i>	VU	NA	NA		
<i>Grapholita caecana</i>	NA	VU	EN		
<i>Grapholita discretana</i>	CR	DD	EN		
<i>Greenomyia baikalica</i>	VU	NE	VU		
<i>Greenomyia mongolica</i>	VU	NE	NA		
<i>Gregopimpla inquisitor</i>	NA	NE	NT		
<i>Grifola frondosa</i>	VU	NT	NT		
<i>Gulo gulo</i>	EN	VU	EN	VU	LC
<i>Gyalecta derivata</i>	EN	EN	NA		
<i>Gyalecta flotowii</i>	VU	VU	CR		
<i>Gyalecta friesii</i>	NT	NT	CR		
<i>Gyalecta ophiospora</i>	NE	EN	NA		
<i>Gyalecta subclausa</i>	NE	NT	CR		
<i>Gyalecta truncigena</i>	VU	VU	CR		
<i>Gyalecta ulmi</i>	NT	VU	NT		
<i>Gymnocarpium continentale x dryopteris</i>	NT	NA	NE		
<i>Gymnopilus bellulus</i>	NE	NA	DD		
<i>Gymnopilus odini</i>	NT	NT	NA		
<i>Gymnopternus blankaartensis</i>	NA	NT	NA		
<i>Gymnopus brassicolens</i>	NT	VU	NA		
<i>Gymnopus erythropus</i>	NE	NT	NA		
<i>Gymnopus fusipes</i>	NT	NT	NA		
<i>Gymnopus hariolorum</i>	NT	VU	NE		
<i>Gymnostomum calcareum</i>	NA	EN	NA		
<i>Gynaephora selenitica</i>	NA	NA	VU		
<i>Gyromitra fastigiata</i>	NE	EN	NA		
<i>Gyromitra parva</i>	NA	EN	NA		

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Gyromitra sphaerospora</i>	VU	VU	VU		
<i>Gyromitra splendida</i>	NA	VU	NE		
<i>Gyrophana kangasi</i>	NA	NA	DD		
<i>Gyrophana nitidula</i>	NA	RE	NA		
<i>Gyrophana rugipennis</i>	NA	DD	NA		
<i>Gyroporus castaneus</i>	NT	NT	EN		
<i>Hadena albimacula</i>	NT	NT	NT		
<i>Hadena confusa</i>	NA	NT	NA		
<i>Halictoxenos spencei</i>	NA	NA	NT		
<i>Halictoxenos tumulorum</i>	NA	NA	NT		
<i>Halictus maculatus</i>	NA	NA	NT		LC
<i>Halticus luteicollis</i>	NA	EN	NA		
<i>Hamamelistes betulinus</i>	NA	NE	NT		
<i>Hamearis lucina</i>	NA	VU	NA		LC
<i>Hapalopilus aurantiacus</i>	NT	VU	NT		
<i>Hapalopilus croceus</i>	CR	CR	CR		
<i>Haplocladium microphyllum</i>	NA	RE	NA		
<i>Haploporus odorus</i>	VU	VU	NT		
<i>Haploporus tuberculosus</i>	NT	NT	NA		
<i>Haplothrips acanthoscelis</i>	NA	NA	NT		
<i>Hardya tenuis</i>	NA	NT	RE		
<i>Harpalus anxius</i>	NA	NT	RE		
<i>Harpalus nigratarsis</i>	NA	DD	NT		
<i>Hedychridium chloropygum</i>	NA	NA	VU		
<i>Hedychridium zelleri</i>	NA	NA	VU		
<i>Heinemannia festivella</i>	NA	NT	NA		
<i>Heinemannia laspeyrella</i>	EN	EN	VU		
<i>Heliothis viriplaca</i>	NA	VU <sup>p</sup>	VU		
<i>Helophilus bottnicus</i>	NA	RE	RE		
<i>Helvella cupuliformis</i>	DD	DD	NE		
<i>Helvella lactea</i>	NA	VU	NE		
<i>Helvella oblongispora</i>	NE	NA	VU		
<i>Helvella pedunculata</i>	NE	NA	NT		
<i>Hemaris tityus</i>	NA	NT	NA		
<i>Hemerobius marginatus lapponicus</i>	NA	NE	DD		
<i>Hemichroa crocea</i>	NT	NE	NE		
<i>Hephathus achilleae</i>	NA	NA	VU		
<i>Herbertus aduncus</i>	NT	NA	NA		
<i>Herbertus dicranus</i>	VU	NA	NA		
<i>Herbertus stramineus</i>	VU	NA	NA		
<i>Heridium erinaceus</i>	CR	CR	NA		
<i>Herina paludum</i>	NA	NE	RE		
<i>Heterocladium flaccidum</i>	NA	DD	NA		
<i>Heterocladium wulfsbergii</i>	NT	NA	NA		
<i>Heterodermia speciosa</i>	EN	VU	EN		
<i>Heterogenea asella</i>	NT	NT	NT		
<i>Heteromeringia nigrimana</i>	NA	NT	NA		
<i>Heterothera serraria</i>	NA	VU	NA		
<i>Hilara pilosa</i>	VU	NE	NA		
<i>Hippocrepis emerus</i>	EN	EN	NA		
<i>Hirtodrosophila lundstroemi</i>	NA	DD	NE		
<i>Histeromerus mystacinus</i>	NA	NE	VU		
<i>Hohenbuehelia auriscalpium</i>	NE	NE	DD		
<i>Hohenbuehelia longipes</i>	EN	DD	CR		
<i>Hohenbuehelia nigra</i>	DD	NA	NA		
<i>Hohenbuehelia tremula</i>	NT	NE	NE		
<i>Hohenbuehelia valesiaca</i>	VU	NA	NA		
<i>Holopyga inflammata</i>	NA	NA	RE		
<i>Holopyga metallica</i>	NA	NA	CR		
<i>Homalocephala albitarsis</i>	NT	NE	NE		
<i>Homolobus flagitator</i>	NA	NE	DD		
<i>Homoneura consobrina</i>	DD	NE	NA		
<i>Hoplitis robusta</i>	NA	NA	CR		LC
<i>Hordelymus europaeus</i>	NA	VU	NA		
<i>Horisme aemulata</i>	NA	EN	NA		
<i>Horisme vitalbata</i>	NA	NT	NA		
<i>Hormopeza copulifera</i>	NA	VU	NE		
<i>Hormopeza oblitterata</i>	EN	NT	NE		
<i>Hydnellum auratile</i>	VU	VU	EN		
<i>Hydnellum compactum</i>	VU	VU	NA		VU

(continued on next page)

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Hydnellum cumulatum</i>	NA	EN	CR		
<i>Hydnellum gracilipes</i>	VU	VU	NT		VU
<i>Hydnellum mirabile</i>	VU	EN	VU		VU
<i>Hydnellum spongiosipes</i>	EN	NA	NA		
<i>Hydnobolites cerebriformis</i>	NT	VU	NE		
<i>Hydnotrya michaelis</i>	DD	VU	NE		
<i>Hydnum albidum</i>	EN	VU	NA		
<i>Hydraecia petasitis</i>	NA	NT	NA		
<i>Hygroaster nauseosodulcis</i>	DD	NA	NA		
<i>Hygrocybe aurantiosplendens</i>	NT	NT	EN		
<i>Hygrocybe colemanniana</i>	VU	NT	VU		
<i>Hygrocybe constrictospora</i>	NA	NT	VU		
<i>Hygrocybe fornicata</i>	NT	NT	NT		
<i>Hygrocybe ovina</i>	VU	VU	CR		
<i>Hygrocybe russocoriacea</i>	NT	NT	NT		
<i>Hygrohypnum montanum</i>	VU	VU	CR		
<i>Hygrohypnum norvegicum</i>	VU	VU	NA		
<i>Hygrohypnum subeugyrium</i>	DD	VU	NA		
<i>Hygrophoropsis olida</i>	VU	VU	NT		
<i>Hygrophorus arbustivus</i>	NE	EN	NA		
<i>Hygrophorus atramentosus</i>	EN	VU	VU		
<i>Hygrophorus calophyllus</i>	EN	EN	RE		
<i>Hygrophorus chrysodon</i>	EN	NT	EN		
<i>Hygrophorus cossus</i>	CR	NT	NA		
<i>Hygrophorus gliocyclus</i>	NT	VU	NT		
<i>Hygrophorus hyacinthinus</i>	EN	EN	VU		
<i>Hygrophorus inocybiformis</i>	VU	VU	NT		
<i>Hygrophorus latitabundus</i>	NA	VU	NA		
<i>Hygrophorus nemoreus</i>	NT	NT	EN		
<i>Hygrophorus penarioides</i>	NA	VU	NA		
<i>Hygrophorus poetarum</i>	NA	VU	NA		
<i>Hygrophorus purpurascens</i>	VU	EN	EN		
<i>Hygrophorus russula</i>	NT	NT	NA		
<i>Hygrophorus unicolor</i>	NA	NT	NA		
<i>Hylaeus pictipes</i>	RE	NT	EN	LC	
<i>Hylochaetes cruentatus</i>	NA	NA	EN	EN	
<i>Hylurgus ligniperda</i>	NA	DD	NA		
<i>Hymenochaete ulmicola</i>	VU	VU	NT		
<i>Hymenogaster luteus</i>	NA	NT	NA		
<i>Hymenophorus doublieri</i>	CR	VU	CR		
<i>Hymenoscyphus albidus</i>	NA	DD	NA		
<i>Hypebaeus flavipes</i>	EN	VU	NA		
<i>Hyperaspis inexpectata</i>	NA	NA	VU		
<i>Hypericum tetrapterum</i>	NA	NT	NA		
<i>Hyperoscelis eximia</i>	EN	NT	VU		
<i>Hyphoderma deviatum</i>	NT	DD	VU		
<i>Hyphoderma griseoflavescens</i>	NT	NE	NA		
<i>Hyphoderma involutum</i>	VU	VU	NA		
<i>Hyphoderma macedonicum</i>	VU	VU	NA		
<i>Hyphoderma orphanellum</i>	NT	NT	NA		
<i>Hyphoderma subclavigerum</i>	DD	DD	NA		
<i>Hyphodontia curvispora</i>	VU	VU	NT		
<i>Hyphodontia flavipora</i>	NA	NA	DD		
<i>Hyphodontia halonata</i>	VU	VU	DD		
<i>Hyphodontia latitans</i>	NA	NA	EN		
<i>Hyphodontia pilaecystidiata</i>	NA	VU	VU		
<i>Hyphoraia aulica</i>	NA	EN	EN		
<i>Hypnogyra angularis</i>	NA	VU	VU		
<i>Hypnum sauteri</i>	EN	NA	NA		
<i>Hypocenomyce anthracophila</i>	VU	NT	NT		
<i>Hypocenomyce castaneocinerea</i>	VU	NT	NT		
<i>Hypochoaeris maculata</i>	NA	VU	NA		
<i>Hypochnella violacea</i>	NA	EN	NA		
<i>Hypochnicium cymosum</i>	NT	VU	NA		
<i>Hypochnicium vellereum</i>	VU	NT	NT		
<i>Hypocoprurus latridioides</i>	EN	DD	DD		
<i>Hypocrea nybergiana</i>	NA	NT	NA		
<i>Hypocrea seppoi</i>	NA	DD	NA		
<i>Hypomyces porphyreus</i>	NE	VU	NA		
<i>Hypotrachyna laevigata</i>	VU	NA	NA		
<i>Hypotrachyna sinuosa</i>	EN	NA	NA		

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Hypoxylon fuscopurpureum</i>	EN	NA	NA		
<i>Hypoxylon vogesiacum</i>	NT	VU	NE		
<i>Hypoxystis pluviaria</i>	NA	VU	VU		
<i>Hypulus bifasciatus</i>	NA	VU	NT		
<i>Hypulus quercinus</i>	EN	NT	NA		
<i>Ibalia jakowlewi</i>	NA	NA	VU		
<i>Ibalia leucospoides</i>	NA	NE	RE		
<i>Idaea dilutaria</i>	NA	VU	NA		
<i>Idaea trigeminata</i>	NA	NT	NA		
<i>Impatiatinum balsamines</i>	NA	NE	VU		
<i>Impleta consorta</i>	NA	NE	NT		
<i>Infurcitinea argentimaculella</i>	NT	NT	DD		
<i>Inocellia crassicornis</i>	DD	EN	NA		
<i>Inocybe aeruginascens</i>	NA	NA	RE		
<i>Inocybe decemgibbosa</i>	NA	NA	EN		
<i>Inocybe fibrosa</i>	NA	EN	NA		
<i>Inocybe fibrosoides</i>	NE	VU	NA		
<i>Inocybe haemacta</i>	NA	DD	NA		
<i>Inocybe multicoloronata</i>	NA	NA	CR		
<i>Inocybe mytiliodora</i>	NA	NA	EN		
<i>Inocybe queletii</i>	NE	NA	DD		
<i>Inocybe quietiodor</i>	NA	DD	NA		
<i>Inocybe tenebrosa</i>	VU	DD	NA		
<i>Inocybe tricolor</i>	NE	VU	NA		
<i>Inonotopsis subiculosa</i>	CR	VU	EN		
<i>Inonotus cuticularis</i>	VU	VU	NA		
<i>Inonotus dryadeus</i>	CR	VU	NA		
<i>Inonotus dryophilus</i>	NE	VU	VU		
<i>Inonotus hispidus</i>	EN	VU	CR		
<i>Inostemma hemicerum</i>	NT	NE	NA		
<i>Ionomidotis irregularis</i>	NA	NA	CR		
<i>Ipa (Lepthyphantes) keyserlingi</i>	NA	VU	VU		
<i>Iphiaulax impostor</i>	NA	NE	RE		
<i>Ipidia sexguttata</i>	NA	NA	CR		
<i>Ipimorpha contusa</i>	NT	NA	VU		
<i>Irpicodon pendulus</i>	NT	NT	NT		
<i>Ischnoceros caligatus</i>	NA	NE	NT		
<i>Ischnoderma resinosum</i>	VU	VU	NA		
<i>Ischnodes sanguinicollis</i>	NA	EN	NA	VU	
<i>Ischnomera caerulea</i>	VU	VU	NA		
<i>Ischnomera cinerascens</i>	EN	NT	NA		
<i>Ischnomera cyanea</i>	NA	VU	NA		
<i>Ischnomera sanguinicollis</i>	EN	EN	NA		
<i>Isoptena serricornis</i>	NA	NT	NA		
<i>Isorhipis marmottani</i>	EN	VU	NA		
<i>Isothecium holtii</i>	NT	NA	NA		
<i>Itoplectis clavicornis</i>	NA	NE	VU		
<i>Itoplectis curticauda</i>	NA	NE	VU		
<i>Janssoniella ambigua</i>	NA	NE	NT		
<i>Jodia croceago</i>	NA	RE	NA		
<i>Julus scanicus</i>	NA	VU	VU		
<i>Junghuhnia lacera</i>	DD	NT	NA		
<i>Kageronia orbiticola</i>	NA	NT	NA		
<i>Kaltenbachiella pallida</i>	NA	NE	RE		
<i>Karsholtia marianii</i>	VU	NT	NA		
<i>Karstenella vernalis</i>	NA	NA	CR		
<i>Kessleria fasciapennella</i>	NA	DD	NA		
<i>Klimeschia transversella</i>	NA	NT	EN		
<i>Kneiffiella alienata</i>	VU	VU	NA		
<i>Kneiffiella efibulata</i>	DD	DD	NA		
<i>Kneiffiella microspora</i>	NA	DD	NA		
<i>Konowia betulae</i>	NA	NA	NT		
<i>Konowia megapolitana</i>	VU	DD	VU		
<i>Korynetes ruficornis</i>	NA	VU	NA		
<i>Kurzia sylvatica</i>	DD	EN	NA		
<i>Labidostomis humeralis</i>	NT	NT	NA		
<i>Lacerta agilis</i>	NA	VU	NA	LC	LC
<i>Laciniaria plicata</i>	NA	NT	NA		
<i>Lacon lepidopterus</i>	NA	RE	VU	NT	
<i>Lacon querceus</i>	NA	CR	NA	NT	

(continued on next page)

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Lactarius acris</i>	NT*	NT	NA		
<i>Lactarius decipiens</i>	NA	NT	NA		
<i>Lactarius luridus</i>	NT	NE	NA		
<i>Lactarius mairei</i>	NE	VU	NA		
<i>Lactarius rubrocinctus</i>	NE	NT	NA		
<i>Lactarius zonarius</i>	NA	DD	NA		
<i>Lactuca quercina</i>	NA	VU	NA	LC	
<i>Laelius borealis</i>	NA	NE	NT		
<i>Laelius parcepilosus</i>	NA	NA	NT		
<i>Laelius virilis</i>	NA	NA	NT		
<i>Laemophloeus monilis</i>	CR	VU	NA		
<i>Lamellocossus terebra</i>	VU	NT	VU		
<i>Lamiastrum galeobdolon montanum</i>	CR	NA	NA		
<i>Lampropteryx otregiata</i>	NA	NT	NA		
<i>Lamprotes c-aureum</i>	NA	RE	NT		
<i>Laphria ephippium</i>	NA	VU	NA		
<i>Lappula deflexa</i>	NT	VU	VU		
<i>Larca lata</i>	NA	NT	NA		
<i>Larinioides ixobolus</i>	NA	NA	RE		
<i>Lasioglossum nitidiusculum</i>	VU	VU	CR	LC	
<i>Lasioglossum sexmaculatum</i>	RE	NT	NA	EN	
<i>Lasioglossum sexnotatum</i>	NA	CR	CR	EN	
<i>Lasionectria mantuana</i>	NA	NA	NT		
<i>Lasius alienus</i>	NA	DD	NA		
<i>Lasius bicornis</i>	NA	EN	NA		
<i>Laurilia sulcata</i>	VU	VU	NT		
<i>Lauxania minor</i>	DD	NA	NA		
<i>Lecania fuscella</i>	NE	EN	EN		
<i>Lecania koerberiana</i>	NA	VU	CR		
<i>Lecania subfuscula</i>	NE	NE	DD		
<i>Lecanographa amylicata</i>	NA	VU	NA		
<i>Lecanographa lyncea</i>	NA	CR	NA		
<i>Lecanora anopta</i>	NE	NE	DD		
<i>Lecanora apochroeoides</i>	NA	NA	RE		
<i>Lecanora cinereofusca</i>	EN	NA	NA		
<i>Lecanora exspersa</i>	NA	NA	VU		
<i>Lecanora glabrata</i>	NE	NT	NA		
<i>Lecanora impudens</i>	NT	VU	NA		
<i>Lecanora pseudohypopta</i>	NA	NA	DD		
<i>Lecanora retracta</i>	NA	DD	NA		
<i>Lecanora scanica</i>	NA	CR	NA		
<i>Lecanora sublivescens</i>	NA	VU	NA		
<i>Lecanora umbricolor</i>	NA	NE	EN		
<i>Lecanora vacillans</i>	NA	EN	NA		
<i>Leczinum crocipodium</i>	EN	EN	CR		
<i>Lecidea apochroeella</i>	NE	NE	EN		
<i>Lecidea enclitica</i>	NE	NE	RE		
<i>Lecidea exsequens</i>	NE	NA	DD		
<i>Lecidea koskinenii</i>	NA	NA	DD		
<i>Lecidea microphaea</i>	NA	NE	VU		
<i>Lecidea olivascens</i>	NE	NE	DD		
<i>Lecidea paraclitica</i>	NE	NE	NT		
<i>Lecidea phaeopelidna</i>	NA	NA	DD		
<i>Lecidea phaeostigmella</i>	NA	NA	DD		
<i>Lecidea phaeotera</i>	NA	NA	DD		
<i>Lecidea plebeja</i>	NE	NE	DD		
<i>Lecidea subfuscescens</i>	NE	NA	DD		
<i>Lecidea subhumida</i>	NA	NA	DD		
<i>Lecidea tianensis</i>	NA	NA	DD		
<i>Lecidella laureri</i>	NE	DD	NA		
<i>Lecidella xylophila</i>	NE	CR	NA		
<i>Leia longiseta</i>	VU	NA	NA		
<i>Leiopus punctulatus</i>	NA	VU	RE		
<i>Lemonia dumii</i>	NA	VU	NT		
<i>Lentaria epichnoa</i>	NT	NT	NA		
<i>Lentinus tigrinus</i>	NA	EN	NA		
<i>Lepidomyces subcalceus</i>	NE	DD	NA		
<i>Lepiota audreae</i>	VU	NE	NT		
<i>Lepiota forquignonii</i>	NA	VU	NA		
<i>Lepiota fuscovinacea</i>	EN	EN	CR		
<i>Lepiota grangei</i>	EN	VU	VU		

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Lepiota griseovirens</i>	NA	NT	NA		
<i>Lepiota ignivolvata</i>	NA	VU	NA		
<i>Lepiota lilacea</i>	NA	VU	NA		
<i>Lepiota ochraceofulva</i>	NA	VU	NE		
<i>Lepiota pseudolilacea</i>	VU	VU	NA		
<i>Lepiota rufipes</i>	EN	NE	VU		
<i>Lepiota setulosa</i>	VU	VU	NT		
<i>Lepiota tomentella</i>	EN	VU	NA		
<i>Lepista subconnexa</i>	DD	NA	NE		
<i>Leptacis nydia</i>	NT	NE	NE		
<i>Leptarthrus vitripennis</i>	NA	EN	NA		
<i>Leptodromiella crassiseta</i>	VU	DD	NE		
<i>Leptogium burgessii</i>	VU	NA	NA		
<i>Leptogium cochleatum</i>	VU	NA	NA		
<i>Leptogium diffractum</i>	NA	EN	NA		
<i>Leptogium hibernicum</i>	CR	NA	NA		
<i>Leptogium intermedium</i>	NE	NE	NT		
<i>Leptogium rivulare</i>	EN	EN	RE		NT
<i>Leptogium subtile</i>	NE	NE	VU		
<i>Leptoplectus spinolai</i>	VU	VU	NA		
<i>Leptoscyphus cuneifolius</i>	CR	NA	NA		
<i>Leptosporomyces mundus</i>	EN	NA	NA		
<i>Leptosporomyces roseus</i>	NA	DD	NA		
<i>Leptothorax goesswaldi</i>	NA	EN	NA		
<i>Leptura nigripes</i>	RE	EN	EN		
<i>Leptura thoracica</i>	NA	NA	CR		
<i>Lestica alata</i>	NA	EN	EN		
<i>Letharia vulpina</i>	NT	NT	RE		
<i>Leucogaricus sublittoralis</i>	NA	DD	NA		
<i>Leucobryum juniperoideum</i>	NA	NT	NA		
<i>Leucocarpia dictyospora</i>	NA	NE	DD		
<i>Leucopaxillus gentianeus</i>	EN	NT	NT		
<i>Leucopaxillus paradoxus</i>	NT	EN	NA		
<i>Leucopaxillus rhodoleucus</i>	VU	NT	NA		
<i>Leucopaxillus subzonalis</i>	NA	VU	NT		
<i>Leucopaxillus tricolor</i>	EN	EN	EN		
<i>Leucopholiota decorosa</i>	NA	NA	CR		
<i>Leucoptera lathyriifoliella</i>	RE	NA	EN		
<i>Leucoscypha ovilloides</i>	NA	NA	VU		
<i>Levipalpus hepatarellus</i>	NA	VU	EN		
<i>Libnotes (Afrolimonia) ladogensis</i>	NA	NA	NT		
<i>Lichinodium ahlneri</i>	NT	RE	NA		
<i>Limenitis camilla</i>	NA	RE	NA	LC	
<i>Limnephilus tauricus</i>	NA	DD	NA		
<i>Limonia badia</i>	NA	NA	NT		
<i>Lindtneria leucobryophila</i>	DD	VU	EN		
<i>Lindtneria trachyspora</i>	EN	VU	RE		
<i>Liodopria serricornis</i>	NT	NT	NT		
<i>Liotryphon caudatus</i>	NA	NE	NT		
<i>Liotryphon crassiseta</i>	NA	NE	VU		
<i>Lissodema denticolle</i>	NA	NT	NA		
<i>Lithobius lapidicola</i>	NA	NT	NA		
<i>Lithospermum officinale</i>	NT	NT	NA		
<i>Lobaria hallii</i>	VU	CR	NA		
<i>Longitarsus apicalis</i>	EN	NT	VU		
<i>Lopadostoma pouzarii</i>	VU	NT	NA		
<i>Lopheros rubens</i>	CR	EN	VU		
<i>Lophozia elongata</i>	EN	NT	DD		
<i>Lophozia polaris</i>	EN	NT	NT		
<i>Lopinga achine</i>	NA	NT	VU	VU	
<i>Lopinga achine rambringi</i>	NA	NT	NA		
<i>Lopinga achine suecica</i>	NA	VU	NA		
<i>Lordiphosa acuminata</i>	NA	DD	NA		
<i>Loricula ruficeps</i>	NA	EN	NA		
<i>Lunaria rediviva</i>	NA	NT	NA		
<i>Luzula divulgata</i>	NA	NT	NA		
<i>Lycaena helle</i>	VU	EN	EN	EN	
<i>Lyciella subpallidiventris</i>	DD	NA	NA		
<i>Lycoperdina bovistae</i>	NA	NT	NA		
<i>Lycoperdon atropurpureum</i>	NA	EN	NA		

(continued on next page)

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Lycoperdon caudatum</i>	NT	VU	VU		
<i>Lycoperdon decipiens</i>	NA	NT	NA		
<i>Lycoperdon mammiforme</i>	EN	VU	NA		
<i>Lycopodium zeileri</i>	VU	VU	NA		
<i>Lycorina triangulifera</i>	NA	NE	VU		
<i>Lyctus linearis</i>	EN	VU	RE		
<i>Lymexylon navale</i>	CR	NT	NA		
<i>Lynx lynx</i>	EN	VU	NT	LC	LC
<i>Lyophyllum eustygium</i>	VU	NT	NA		
<i>Lysimachia nemorum</i>	NT	NT	NA		
<i>Macaria loritaria</i>	NA	NT	NA		
<i>Macrobrachius kowarzii</i>	EN	NA	NA		
<i>Macrocera crassicornis</i>	NA	NA	VU		
<i>Macrocera pusilla</i>	NA	NA	DD		
<i>Macrogastra ventricosa</i>	NT	VU	VU		
<i>Macrophya carinthiaca</i>	NA	NA	NT		
<i>Macrorrhyncha rostrata</i>	NA	NT	VU		
<i>Macrosiphum lisae</i>	NA	NE	EN		
<i>Macrosiphum melampyri</i>	NA	NE	NT		
<i>Malacodea regelaria</i>	EN	VU	NT		
<i>Malaxis monophyllos</i>	NA	VU	EN	NT	
<i>Mallota cimbiciformis</i>	NA	NT	NA		
<i>Mallota megilliformis</i>	EN	VU	NT		
<i>Malthinus balteatus</i>	VU	NT	NA		
<i>Malthinus facialis</i>	VU	NT	NA		
<i>Malthinus seriepunctatus</i>	NT	NT	NA		
<i>Malthodes dispar</i>	NA	NT	NA		
<i>Manda mandibularis</i>	NA	NT	NA		
<i>Maniola lycaon</i>	NA	NA	EN		
<i>Mannia triandra</i>	NA	CR	NA		
<i>Manota unifurcata</i>	EN	NE	VU		
<i>Margaritifera margaritifera</i>	NA	EN	NA	CR	EN
<i>Maronea constans</i>	NA	RE	NA		
<i>Martynovella nana</i>	DD	NA	NA		
<i>Matsucoccus matsumurae</i>	NA	NE	DD		
<i>Medetera inspissata</i>	DD	NE	NA		
<i>Medon dilutus</i>	NA	VU	NA		
<i>Medon rufiventris</i>	NA	DD	NA		
<i>Megachile bombycina</i>	NA	NA	RE	DD	
<i>Megachile lagopoda</i>	CR	NT	NT	LC	LC
<i>Megachile pyrenaea</i>	RE	VU	EN	DD	
<i>Megacoelum infusum</i>	VU	NT	NT		
<i>Megalalia laureri</i>	NA	EN	NA		
<i>Megalospora pachycarpa</i>	EN	NA	NA		
<i>Megarhyssa superba</i>	NA	NE	NT		
<i>Megastigmus dorsalis</i>	NA	NE	NT		
<i>Megatoma pubescens</i>	EN	VU	NT		
<i>Megophthalmidia crassicornis</i>	VU	NE	NA		
<i>Melandrya barbata</i>	EN	EN	CR		
<i>Melandrya caraboides</i>	EN	EN	NA		
<i>Melangyna ericarum</i>	NT	NA	NA		
<i>Melanogaster tuberiformis</i>	NE	VU	NA		
<i>Melanohalea elegantula</i>	VU	NT	NA		
<i>Melanomphalia nigrescens</i>	NA	VU	NA		
<i>Melanophyllum eyrei</i>	VU	VU	CR		
<i>Melica picta</i>	NA	NA	NT		
<i>Meliceria tragardhi</i>	NA	VU	NA		
<i>Melitaea britomartis</i>	NA	CR	NA	NT	
<i>Melitaea cinxia</i>	NA	NT	NA	LC	
<i>Melitaea diamina</i>	VU	NT	EN	LC	
<i>Melitta melanura</i>	NA	CR	NA	EN	
<i>Melitta tricincta</i>	NA	NT	NA	NT	
<i>Meloe brevicollis</i>	RE	EN	RE		
<i>Meloe proscarabaeus</i>	EN	NT	EN		
<i>Menegazzia subsimilis</i>	VU	CR	NA		
<i>Menegazzia terebrata</i>	NT	VU	EN		
<i>Menephilus cylindricus</i>	NA	VU	NA		
<i>Merrifieldia leucodactyla</i>	NA	NT	NT		
<i>Merrifieldia tridactyla</i>	NA	NT	EN		
<i>Mesopolobus albitharsus</i>	NA	NE	NT		
<i>Mesopolobus xanthocerus</i>	NA	NE	NT		



Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Mesosa curculionoides</i>	VU	EN	NA		
<i>Mesosa myops</i>	NA	NA	VU		
<i>Mesosa nebulosa</i>	VU	NT	NA		
<i>Methocha articulata</i>	EN	EN	NT		
<i>Metopolophium tenerum</i>	NA	NE	DD		
<i>Meum athamanticum</i>	VU	NA	NA		
<i>Micanthulina pseudomicantula</i>	NA	NA	VU		
<i>Micarea anterior</i>	NA	NE	VU		
<i>Micarea eximia</i>	NE	NE	VU		
<i>Micarea hedlundii</i>	EN	VU	VU		
<i>Micarea melaeuiza</i>	NA	RE	NA		
<i>Micarea stipitata</i>	CR	NA	NA		
<i>Micridium angulicolle</i>	NA	VU	NA		
<i>Microbisium suecicum</i>	NT	DD	NA		
<i>Microdiprion fuscipennis</i>	NA	NA	RE		
<i>Microglossum atropurpureum</i>	VU	VU	NA		
<i>Microglossum fuscobubens</i>	VU	NE	NA		
<i>Microglossum olivaceum</i>	VU	NT	NA		
<i>Micropeplus latus</i>	NA	VU	NA		
<i>Microphor crassipes</i>	DD	NE	NE		
<i>Microplana terrestris</i>	NA	DD	NA		
<i>Microrhagus emyi</i>	NA	VU	NA	LC	LC
<i>Microsania straeleni</i>	NA	NT	NE		
<i>Microsania vrydaghi</i>	NA	VU	NA		
<i>Miltogramma ibericum</i>	NA	NT	NE		
<i>Milvus migrans</i>	NA	EN <sup>o</sup>	CR	LC	LC
<i>Mimumesa atratina</i>	NA	NT	NA		
<i>Mimumesa littoralis</i>	NA	NT	EN		
<i>Mimumesa spooneri</i>	EN	EN	EN		
<i>Miota avia</i>	NT	NA	NA		
<i>Mniotype bathensis</i>	NA	NA	VU		
<i>Moehringia lateriflora</i>	VU	VU	NT	LC	
<i>Moelleropsis nebulosa</i>	EN	EN	VU		
<i>Mompha sexstrigella</i>	NA	NA	NT		
<i>Mompha terminella</i>	NA	NT	NT		
<i>Mongolojassus sibiricus</i>	NA	NA	VU		
<i>Monochamus urussovii</i>	RE	EN	NT		
<i>Monochroa ferrea</i>	EN	EN	VU		
<i>Monoclonia silvatica</i>	DD	NA	NE		
<i>Monophadnoides ruficruris</i>	DD	NA	NA		
<i>Morchella pseudoviridis</i>	DD	NA	NA		
<i>Mordella brachyura</i>	VU	NT	NE		
<i>Mordellaria aurofasciata</i>	EN	NA	NA		
<i>Mordellistena neuwaldeggiana</i>	EN	NT	NA		
<i>Mordellochroa tournieri</i>	NA	VU	EN		
<i>Muellerella hospitans</i>	NA	NE	VU		
<i>Multiclavula mucida</i>	NT	VU	VU		
<i>Mycena alba</i>	NT	NE	NA		
<i>Mycena austera</i>	DD	NA	NA		
<i>Mycena fagetorum</i>	NT	DD	NA		
<i>Mycena kuehneriana</i>	DD	NA	NA		
<i>Mycena lammiensis</i>	NA	NA	NT		
<i>Mycena obtecta</i>	DD	NA	NA		
<i>Mycena occulta</i>	NA	NA	NT		
<i>Mycena oregonensis</i>	NT	VU	NT		
<i>Mycena pseudopicta</i>	VU	NE	NA		
<i>Mycena terena</i>	DD	NA	NA		
<i>Mycenastrum corium</i>	EN	NT	NA		
<i>Mycetochara humeralis</i>	VU	NT	NT		
<i>Mycetophagus quadriguttatus</i>	NA	NT	VU	LC	
<i>Mycetophila boreocruator</i>	NT	NE	NA		
<i>Mycetophila confusa</i>	VU	NE	NA		
<i>Mycetophila deflexa</i>	NA	NA	NT		
<i>Mycetophila distigma</i>	DD	NE	NA		
<i>Mycetophila haruspica</i>	DD	NE	NA		
<i>Mycetophila immaculata</i>	EN	NE	NT		
<i>Mycetophila lastovkai</i>	VU	NE	NA		
<i>Mycetophila morata</i>	NA	NE	DD		
<i>Mycetophila ostentanea</i>	NA	NA	VU		
<i>Mycetophila pecinai</i>	NA	NE	VU		

(continued on next page)

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Mycetophila pyrenaica</i>	VU	NE	NA		
<i>Mycetophila sigmoides</i>	DD	NA	VU		
<i>Mycetophila spectabilis</i>	NT	NE	NA		
<i>Mycetophila triangulata</i>	NA	NA	VU		
<i>Mycetoporus bruckii</i>	NT	DD	NT		
<i>Mycoaciella bispora</i>	VU	NE	NA		
<i>Mycomicrothelia confusa</i>	NE	NA	DD		
<i>Mycomya (Mycomya) collini</i>	DD	NA	VU		
<i>Mycomya (Mycomya) forestaria</i>	NA	NE	NT		
<i>Mycomya (Mycomya) karelica</i>	NA	NA	NT		
<i>Mycomya (Mycomya) parva</i>	NA	NE	VU		
<i>Mycomya britteni</i>	VU	NE	NE		
<i>Mycomya digitifera</i>	NT	NA	NE		
<i>Mycomya mituda</i>	EN	NE	NE		
<i>Mycomya tridens</i>	VU	NA	NA		
<i>Mycosphaerella chimaphilae</i>	NA	EN	NE		
<i>Myolepta dubia</i>	NA	VU	NA		
<i>Myosotis secunda</i>	VU	NA	NA		
<i>Myotis alcathoe</i>	NA	CR	NA		
<i>Myotis bechsteinii</i>	NA	CR	NA	VU	NT
<i>Myotis dasycneme</i>	NA	EN	NA	NT	NT
<i>Myotis nattereri</i>	CR	VU	EN	LC	LC
<i>Myrinia pulvinata</i>	NT	VU	NT		
<i>Myriosclerotinia luzulae</i>	NT	NA	NE		
<i>Myrmeleon bore</i>	EN	NT	NT		
<i>Mythicomycetes corneipes</i>	VU	DD	VU		
<i>Nacerdes carniolica</i>	NA	VU	NA		
<i>Nasonovia altaensis</i>	NA	NA	EN		
<i>Nearctaphis vera</i>	NA	NA	EN		
<i>Neckera pennata</i>	VU	VU	VU		
<i>Neelus murinus</i>	DD	NA	NA		
<i>Nehalennia speciosa</i>	NA	EN	EN	NT	NT
<i>Nemapogon falstriellus</i>	NA	EN	NA		
<i>Nemapogon fungivorellus</i>	EN	NT	EN		
<i>Nemapogon gliriellus</i>	NA	EN	NA		
<i>Nemapogon inconditellus</i>	NA	EN	NA		
<i>Nematopogon adansoniellus</i>	NA	VU	NA		
<i>Nemophora cupriacella</i>	NA	VU	EN		
<i>Nemoura arctica</i>	NA	NT	NA		
<i>Nemoura dubitans</i>	NA	VU	NA		
<i>Nemoura viki</i>	NA	DD	NA		
<i>Neotalicomerus formosus</i>	NA	VU	NE		
<i>Neoempheria bimaculata</i>	NA	NE	NT		
<i>Neoleucopis freyi</i>	DD	NA	NA		
<i>Neoxorides varipes</i>	NA	NE	RE		
<i>Nephrotoma lundbecki</i>	DD	DD	NA		
<i>Nephus bipunctatus</i>	NT	NA	NA		
<i>Neuratelia nigricornis</i>	NT	NA	NA		
<i>Neuratelia sintenisi</i>	NA	NE	NT		
<i>Neuratelia subulata</i>	NT	NA	NA		
<i>Neurigona erichsoni</i>	NE	VU	NA		
<i>Neuroterus albipes</i>	NA	NE	NT		
<i>Neuroterus tricolor</i>	NA	NE	RE		
<i>Nevraphes perssoni</i>	NA	VU	DD		
<i>Niditinea truncicolella</i>	NT	NT	NT		
<i>Niesslia lobariae</i>	NA	DD	NA		
<i>Nivellia sanguinosa</i>	CR	RE	VU		
<i>Nola karelica</i>	NT	NT	EN		
<i>Nomada baccata</i>	CR	EN	VU	NT	NT
<i>Nomada facilis</i>	NA	EN	NA	LC	
<i>Nomada obtusifrons</i>	VU	VU	EN	NT	
<i>Nomada opaca</i>	NA	NT	NA	NT	
<i>Nomada subcornuta</i>	CR	NT	EN		
<i>Nosodendron fasciculare</i>	NA	EN	NA		
<i>Nothocasis sertata</i>	NA	EN	NA		
<i>Nothochrysa capitata</i>	VU	NE	NA		
<i>Nothochrysa fulviceps</i>	VU	NE	NA		
<i>Nothorhina punctata</i>	NT	NT	NT		
<i>Nothoserphus boops</i>	NT	NE	NE		
<i>Notocelia tetragonana</i>	VU	NT	VU		
<i>Notolaemus castaneus</i>	NA	VU	NA		

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Notolaemus unifasciatus</i>	NA	VU	NA		
<i>Notolopha sibirica</i>	DD	NE	NE		
<i>Nyctalus leisleri</i>	NA	CR	NA	LC	LC
<i>Nyctea svecica</i>	EN	RE	NA		
<i>Nysson mimulus</i>	NA	NT	EN		
<i>Oberea linearis</i>	EN	NT	NA		
<i>Obrium brunneum</i>	NA	NT	NA	LC	
<i>Ocalea rivularis</i>	NA	DD	NA		
<i>Octavianina asterosperma</i>	EN	VU	NA		
<i>Octotemnus mandibularis</i>	RE	EN	RE		
<i>Ocys harpaloides</i>	VU	NA	NA		
<i>Odonticum romellii</i>	NT	NT	NT		
<i>Odonticum subhelveticum</i>	VU	NA	NA		
<i>Odontocera albicorne</i>	VU	NT	NA		
<i>Odontocolon spinipes</i>	NA	NE	NT		
<i>Odynerus melanocephalus</i>	RE	NT	RE		
<i>Oebalia unistriata</i>	NA	VU	NA		
<i>Oedalea tibialis</i>	EN	NE	NA		
<i>Oligia versicolor</i>	NA	NT	NA		
<i>Oligomerus brunneus</i>	NA	VU	NA		
<i>Oligoporus floriformis</i>	NT	VU	NA		
<i>Oligoporus septentrionalis</i>	NT	DD	NA		
<i>Omalus biaccinctus</i>	VU	NT	VU		
<i>Omnia triquetra</i>	EN	EN	CR		
<i>Onycholyda sertata</i>	NE	NE	NT		
<i>Oomorpha concolor</i>	NA	NT	NA		
<i>Opegrapha culmigena</i>	NA	EN	NE		
<i>Opegrapha niveoatra</i>	NE	NE	RE		
<i>Opegrapha ochrocheila</i>	VU	NT	NA		
<i>Opegrapha subparallela</i>	NA	NA	RE		
<i>Opegrapha vermicellifera</i>	VU	NT	NA		
<i>Ophiogomphus cecilia</i>	NA	NT	NA	LC	LC
<i>Opilo domesticus</i>	CR	VU	NA		
<i>Opilo mollis</i>	VU	NT	NA		
<i>Orbilina comma</i>	NT	VU	NA		
<i>Orchesia luteipalpis</i>	VU	VU	NA		
<i>Orchis spitzelii</i>	NA	VU	NA	NT	
<i>Orgilus obesus</i>	NA	NA	VU		
<i>Oriolus oriolus</i>	NA	VU	EN	LC	LC
<i>Orobancha reticulata</i>	NA	EN	NA		
<i>Orthotomicus longicollis</i>	RE	VU	VU		
<i>Orthotrichia angustella</i>	NA	NT	NA		
<i>Orthotrichia tragetti</i>	NA	NT	NA		
<i>Orthotrichum patens</i>	VU	EN	CR		
<i>Orthotrichum scanicum</i>	CR	RE	NA		LC
<i>Orthotrichum stellatum</i>	CR	NA	NA		
<i>Orussus abietinus</i>	NA	NT	RE		
<i>Osmia niveata</i>	NA	CR	NA	LC	
<i>Osmia svenssoni</i>	NA	DD	NA	DD	DD
<i>Osmoderma eremita</i>	CR	NT	VU	NT	NT
<i>Osmylus fulvicephalus</i>	NA	NT	NA		
<i>Osphya bipunctata</i>	EN	VU	NA		
<i>Otidea concinna</i>	VU	NA	CR		
<i>Otidea phlebophora</i>	NE	NE	EN		
<i>Ovalisia rutilans</i>	EN	NA	EN		
<i>Oxybelus argentatus</i>	EN	NT	VU		
<i>Oxycera trilineata</i>	EN	VU	RE		
<i>Oxychilus glaber</i>	NA	VU	NA		
<i>Oxychilus navarricus</i>	DD	NA	NA		
<i>Oxyaemus variolosus</i>	NA	VU	NA		
<i>Oxypoda serpentata</i>	NA	NA	DD		
<i>Oxyrrhynchium pumilum</i>	EN	EN	NA		
<i>Oxyrrhynchium speciosum</i>	DD	NT	NA		
<i>Pachyneura fasciata</i>	VU	VU	NE		
<i>Pachyphiale carneola</i>	VU	VU	NA		
<i>Pachyphleus citrinus</i>	NT	DD	NT		
<i>Pachyphloeus melanoanthus</i>	NT	DD	NA		
<i>Pallavicinia lyellii</i>	NA	RE	NA		
<i>Palloptera bimaculata</i>	NA	VU	NA		
<i>Pammene suspectana</i>	NT	NT	VU		

(continued on next page)

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Pamphilius aucupariae</i>	NA	NA	NT		
<i>Pamphilius brevicornis</i>	NA	NA	RE		
<i>Pamphilius inanitus</i>	NT	NE	VU		
<i>Pamphilius latifrons</i>	NE	NE	VU		
<i>Pamphilius thorwaldi</i>	NA	NA	EN		
<i>Pandivirilia melaleuca</i>	NA	VU	NA		
<i>Panellus violaceofulvus</i>	DD	NA	NA		
<i>Panemeria tenebrata</i>	NA	RE	VU		
<i>Panteles schuetzeanus</i>	NA	NE	NT		
<i>Pantoclis zorayda</i>	NT	NA	NA		
<i>Panurgus banksianus</i>	VU	NT	NA	LC	
<i>Paracharactus gracilicornis</i>	NE	NE	VU		
<i>Paraleptophlebia wernerii</i>	NT	DD	RE		
<i>Paraleucobryum sauteri</i>	NA	VU	NA		
<i>Parapiophila caerulea</i>	DD	NE	NA		
<i>Parapiophila lonchaeoides</i>	DD	NE	NA		
<i>Paratalanta hyalinalis</i>	NT	NT	EN		
<i>Pareulype berberata</i>	NA	VU	NA		
<i>Parmeliella testacea</i>	EN	NA	NA		
<i>Parmotrema arnoldii</i>	CR	NA	NA		
<i>Parmotrema crinitum</i>	VU	NA	NA		
<i>Parna apicalis</i>	NA	NA	VU		
<i>Parnassius apollo</i>	NT	NT	EN	NT	VU
<i>Parnassius apollo apollo</i>	NA	NT	NA		
<i>Parnassius apollo scandinavicus</i>	NA	EN	NA		
<i>Parnassius mnemosyne</i>	NT	EN	VU	NT	
<i>Paullicorticium allantosporum</i>	NT	NT	NA		
<i>Paullicorticium ansatum</i>	NT	NT	NT		
<i>Paullicorticium delicatissimum</i>	NT	NT	NA		
<i>Pauropus lanceolatus</i>	DD	NT	NE		
<i>Pcoidus flavonimbatus</i>	NA	NA	NT		
<i>Pediacus depressus</i>	EN	VU	VU	LC	
<i>Pedicia littoralis</i>	NA	VU	NA		
<i>Pedostrangalia pubescens</i>	RE	NT	VU		
<i>Pedostrangalia revestita</i>	NA	EN	NA		
<i>Pelecocera lusitanica</i>	NA	VU	NT		
<i>Pelecotoma fennica</i>	NA	NA	NT		
<i>Pelecystola fraudulentella</i>	NA	EN	NA		
<i>Peltigera monticola</i>	NE	NE	DD		
<i>Peltigera retifoveata</i>	CR	NE	CR		
<i>Peltula euploca</i>	NT	VU	NA		
<i>Pempeliella dilutella</i>	NA	NT	EN		
<i>Pempeliella ornatella</i>	NA	NT	EN		
<i>Pemphredon beaumonti</i>	VU	NT	EN		
<i>Pemphredon fennica</i>	NA	EN	NE		
<i>Pemphredon mortifer</i>	NA	NT	NA		
<i>Peniophora lilacea</i>	NA	VU	NA		
<i>Peniophora septentrionalis</i>	DD	DD	NT		
<i>Peniophorella guttulifera</i>	NT	NT	NT		
<i>Pentaphyllus testaceus</i>	NA	NT	VU		
<i>Peplomyza discoidea</i>	NA	NE	VU		
<i>Perenniporia fraxinea</i>	NA	CR	NA		
<i>Perenniporia medulla-panis</i>	VU	NT	VU		
<i>Perenniporia subacida</i>	EN	VU	NT		
<i>Perenniporia tenuis</i>	VU	VU	CR		
<i>Periclista lineolata</i>	NA	NA	VU		
<i>Perithous divinator</i>	NA	NE	NT		
<i>Perithous septemcinctorius</i>	NA	NE	VU		
<i>Perittia obscurepunctella</i>	NA	VU	EN		
<i>Perizoma hydrata</i>	NA	NT	NA		
<i>Pernis apivorus</i>	NT	NT	EN	LC	LC
<i>Perotettix pictus</i>	VU	NA	VU		
<i>Pertusaria atropallida</i>	NA	NA	DD		
<i>Pertusaria flavocorallina</i>	CR	CR	NA		
<i>Pertusaria ophthalmiza</i>	VU	NT	NT		
<i>Pertusaria stenhammarii</i>	NA	DD	NA		
<i>Pertusaria trachythallina</i>	EN	NA	NA		
<i>Pertusaria velata</i>	NA	CR	NA		
<i>Petractis hypoleuca</i>	CR	EN	NA		
<i>Peziza celtica</i>	DD	NA	NA		
<i>Peziza perparva</i>	NA	NA	DD		

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Peziza prosthetica</i>	DD	NA	NA		
<i>Peziza vaccinii</i>	NT	NA	NA		
<i>Phacopsis vulpina</i>	NA	VU	NA		
<i>Phaenolobus terebrator</i>	NA	NE	NT		
<i>Phaeocalicium tremulicola</i>	NA	NE	NT		
<i>Phaeophyscia constipata</i>	VU	CR	NT		
<i>Phaeophyscia kairamoi</i>	NT	VU	RE		
<i>Phanerochaete jose-ferrariae</i>	NA	NE	NT		
<i>Phellodon secretus</i>	VU	VU	VU		
<i>Pherbellia hackmani</i>	NA	DD	DD		
<i>Philereme transversata</i>	NA	NT	VU		
<i>Philereme vetulata</i>	NT	NT	VU		
<i>Philodromus poecilus</i>	NA	VU	NT		
<i>Philodromus praedatus</i>	NA	NT	NA		
<i>Philodromus rufus</i>	DD	NA	NA		
<i>Phlaeothrips bispinosus</i>	NA	NA	NT		
<i>Phlaeothrips coriaceus</i>	NA	NA	DD		
<i>Phlaeothrips denticauda</i>	NA	NA	DD		
<i>Phlebia bresadolae</i>	EN	DD	RE		
<i>Phlebia centrifuga</i>	NT	VU	NT		
<i>Phlebia coccineofulva</i>	EN	EN	NA		
<i>Phlebia diffissa</i>	VU	NT	NT		
<i>Phlebia femsjoeensis</i>	VU	NT	NA		
<i>Phlebia georgica</i>	NT	DD	NA		
<i>Phlebia lindtneri</i>	VU	VU	VU		
<i>Phlebia ryvardeenii</i>	NA	EN	NA		
<i>Phlebia unica</i>	NT	NT	NA		
<i>Phlebiella insperata</i>	DD	NA	EN		
<i>Phloeophagus lignarius</i>	VU	NT	RE		
<i>Phloeophagus thomsoni</i>	NA	NT	NA		
<i>Phloeopora opaca</i>	NA	NA	VU		
<i>Phloiophilus edwardsii</i>	NA	NT	NA		
<i>Phliota mucigera</i>	NA	NA	CR		
<i>Phliota squarrosoides</i>	NA	NT	NT		
<i>Phoroctenia vittata</i>	VU	NT	NT		
<i>Photedes captiuncula</i>	NA	NT	NA		
<i>Phronia elegans</i>	VU	NE	NT		
<i>Phronia gracilis</i>	NA	NA	NT		
<i>Phronia subsilvatica</i>	NA	NE	DD		
<i>Phrudus compressus</i>	NA	NA	NT		
<i>Phrurolithus minimus</i>	NA	VU	NA		
<i>Phryganophilus ruficollis</i>	EN	EN	VU	NT	
<i>Phtheochroa schreibersiana</i>	NA	EN	RE		
<i>Phthiria congenita</i>	NA	NE	NT		
<i>Phyllodrepa salicis</i>	EN	VU	NE		
<i>Phyllonorycter issikii</i>	NA	NA	NT		
<i>Phyllonorycter lantanellus</i>	NA	NA	CR		
<i>Phyllonorycter populifoliella</i>	VU	NE	NA		
<i>Phyllonorycter schreberellus</i>	NA	NT	NA		
<i>Phylloscopus borealis</i>	EN	EN	VU		LC
<i>Phymatodes pusillus</i>	NA	VU	NA		
<i>Phymatura brevicollis</i>	VU	VU	VU		
<i>Physcia dimidiata</i>	NT	NA	NA		
<i>Physcia leptalea</i>	EN	VU	RE		
<i>Physcia magnussonii</i>	VU	VU	NA		
<i>Physconia detersa</i>	NT	DD	NT		
<i>Physconia grisea</i>	EN	NT	NA		
<i>Physisporinus rivulosus</i>	NA	NA	VU		
<i>Physodontia lundellii</i>	VU	VU	NT		
<i>Phytobaenus amabilis</i>	NA	RE	NT		
<i>Phytocoris insignis</i>	NA	NA	VU		
<i>Phytometra viridaria</i>	NA	NT	NA		
<i>Pilophorus robustus</i>	VU	EN	EN		
<i>Piloporia sajanensis</i>	NA	EN	EN		
<i>Pimpinella major</i>	NA	NT	CR		
<i>Pimpla spuria</i>	NA	NE	NT		
<i>Pimpla strigipleuris</i>	NA	NE	NT		
<i>Pinumius areatus</i>	NA	NA	VU		
<i>Piogaster pilosator</i>	NA	NE	EN		
<i>Pipistrellus pipistrellus</i>	VU	CR	NA	LC	LC

(continued on next page)

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Pipizella virens</i>	NA	NT	NA		
<i>Piptoporus quercinus</i>	EN	EN	NA		
<i>Pistius truncatus</i>	NA	EN	NA		
<i>Pityogenes irkutensis</i>	VU	NT	VU		
<i>Placusa pumilio</i>	NA	NT	NA		
<i>Plagiochila exigua</i>	NT	NA	NA		
<i>Plagiochila spinulosa</i>	VU	NA	NA		
<i>Plagiomnium drummondii</i>	NA	NA	VU		
<i>Plagionotus detritus</i>	NA	EN	NA	LC	
<i>Planaphrodes nigrita</i>	DD	NA	VU		
<i>Planococcus vovae</i>	NA	NE	EN		
<i>Plasteurhynchium striatulum</i>	EN	VU	NA		
<i>Platydis cosnardi</i>	NA	VU	NA		
<i>Platydemia violaceum</i>	NA	VU	CR		
<i>Platyderus depressus</i>	NT	NA	NA		
<i>Platyglea disciformis</i>	NT	NE	NA		
<i>Platyta polita</i>	NA	VU	NA	LC	LC
<i>Platylomalus complanatus</i>	EN	NA	NA		
<i>Platynus krynickii</i>	NA	NT	NA		
<i>Platynus longiventris</i>	NA	CR	NA		
<i>Platypalpus subbrevis</i>	NT	NE	NE		
<i>Platypalpus zetterstedti</i>	DD	NE	NE		
<i>Platypus cylindrus</i>	NA	RE	NA		
<i>Platyrhinus resinosus</i>	NT	NT	NT		
<i>Platysoma compressum</i>	NA	VU	NE		
<i>Platysoma elongatum</i>	NA	RE	RE		
<i>Plebeius nicias</i>	VU	VU	NT		
<i>Plebejus argyrognomon</i>	NA	EN	NA	LC	
<i>Plecotus austriacus</i>	NA	CR	NA	LC	LC
<i>Plectocarpon lichenum</i>	NA	VU	VU		
<i>Plectocarpon nephroleum</i>	NE	EN	DD		
<i>Plectocarpon scrobiculatae</i>	NA	EN	NA		
<i>Plectophloeus nitidus</i>	EN	VU	VU		
<i>Plectophloeus nubigena</i>	NA	NT	NA		
<i>Plegaderus dissectus</i>	NA	NT	NA		
<i>Plegaderus sanatus</i>	NA	EN	NA		
<i>Pleotrichophorus duponti</i>	NA	NE	VU		
<i>Pleotrichophorus persimilis</i>	NA	NE	VU		
<i>Pleurospermum austriacum</i>	NA	EN	NA		
<i>Pleurotus calypttratus</i>	VU	EN	EN		
<i>Pleurotus cornucopiae</i>	VU	NA	NA		
<i>Pluteus aurantiorugosus</i>	EN	EN	NA		
<i>Pluteus chrysophaeus</i>	VU	VU	NE		
<i>Pluteus hispidulus</i>	NA	DD	NE		
<i>Pluteus insidiosus</i>	NA	NA	DD		
<i>Pocota personata</i>	EN	NT	NA		
<i>Poecilolycia vittata</i>	NA	NE	NT		
<i>Poeltinula interjecta</i>	NA	CR	NA		
<i>Polia lamuta</i>	NA	CR	NT		
<i>Polistes biglumis</i>	EN	VU	NA		
<i>Polydrusus marginatus</i>	RE	NA	NA		
<i>Polyergus rufescens</i>	NA	EN	NA		
<i>Polypodium interjectum</i>	VU	VU	NA		
<i>Polyporus badius</i>	VU	NT	VU		
<i>Polyporus pseudobetulinus</i>	NA	VU	VU		
<i>Polyporus tuberaster</i>	NT	NT	NA		
<i>Polyporus umbellatus</i>	VU	NT	NT		
<i>Polytrichastrum pallidisetum</i>	DD	DD	DD		
<i>Porina glaucocinerea</i>	NA	NA	RE		
<i>Porina leptalea</i>	NE	VU	VU		
<i>Porina nigratula</i>	NA	NA	DD		
<i>Porostereum spadiceum</i>	VU	NA	NA		
<i>Porpidia hydrophila</i>	VU	NT	NA		
<i>Postia balsamea</i>	VU	EN	DD		
<i>Postia ceriflua</i>	EN	VU	VU		
<i>Postia guttulata</i>	VU	NT	NT		
<i>Postia immitis</i>	NA	NA	DD		
<i>Postia lateritia</i>	VU	VU	NT		
<i>Postia mappa</i>	NA	DD	EN		
<i>Postia parva</i>	NT	NT	NT		
<i>Postia perdelicata</i>	EN	NA	EN		

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Postia persicina</i>	NA	NA	CR		
<i>Potamophylax rotundipennis</i>	NA	DD	NA		
<i>Potentilla incana</i>	NA	EN	NA		
<i>Potentilla multifida</i>	NA	VU	NA		
<i>Praia taczanowskii</i>	DD	DD	NT		
<i>Preohylax lessonae</i>	CR	VU	NA		
<i>Primula elatior</i>	NA	NT	NA		
<i>Priobium carpini</i>	NA	VU	NT		
<i>Priocnemis confusor</i>	NA	EN	NA		
<i>Priocnemis minuta</i>	NA	VU	CR		
<i>Prionomastix morio</i>	NA	NE	RE		
<i>Prionus coriarius</i>	CR	NT	NT	LC	
<i>Prionychus melanarius</i>	VU	VU	VU		
<i>Pristerognatha penthinana</i>	EN	VU	NA		
<i>Prociphilus bumeliae</i>	NA	NE	NT		
<i>Pronectria robergei</i>	NE	NE	DD		
<i>Pronectria santessonii</i>	NA	NE	DD		
<i>Prosopistoma pennigerum</i>	NA	RE	NA		
<i>Prosopothrips vej dovskiyi</i>	NA	NA	NT		
<i>Prostomis mandibularis</i>	NA	EN	NA	NT	
<i>Protodontia piceicola</i>	VU	VU	NA		
<i>Protodontia subgelatinosa</i>	NE	NT	NA		
<i>Protomerulius caryae</i>	VU	VU	NT		
<i>Protoparmelia oleagina</i>	NT	VU	EN		
<i>Protothelenella xylina</i>	NA	NA	DD		
<i>Protounguicularia nephromatis</i>	NA	NE	DD		
<i>Psamathocrita osseella</i>	NA	EN	NA		
<i>Psarus abdominalis</i>	NA	RE	NA		
<i>Psathyrella jacobssonii</i>	NA	DD	NT		
<i>Psathyrella leucotephra</i>	NA	DD	NA		
<i>Pseudanostirus globicollis</i>	NA	NA	VU		
<i>Pseudatemelia subochreella</i>	NA	NT	NA		
<i>Pseudeuparius sepicola</i>	VU	NT	NA		
<i>Pseudexechia canalicula</i>	DD	NE	NE		
<i>Pseudicius encarpatus</i>	NA	NT	NT		
<i>Pseudoclavellaria amerinae</i>	RE	DD	EN		
<i>Pseudocyphellaria crocata</i>	VU	NA	NA		
<i>Pseudocyphellaria intricata</i>	VU	NA	NA		
<i>Pseudocyphellaria norvegica</i>	VU	NA	NA		
<i>Pseudoheptamelus runari</i>	NA	NA	NT		
<i>Pseudoleskeella papillosa</i>	EN	NT	NT		
<i>Pseudombrophila petrakii</i>	NA	NA	DD		
<i>Pseudoptilinus fissicollis</i>	NA	VU	NA		
<i>Pseudorchis albida</i>	NT	EN	NT		
<i>Pseudorhyssa alpestris</i>	NA	NE	NT		
<i>Pseudorhyssa nigricornis</i>	NA	NE	NT		
<i>Pseudosagedia borneri</i>	NE	CR	NA		
<i>Pseudosagedia grandis</i>	NE	RE	CR		
<i>Pseudosagedia interjungens</i>	NE	CR	NA		
<i>Pseudotephritis trypetoptera</i>	VU	NE	NT		
<i>Pseudotomentella humicola</i>	NA	NA	DD		
<i>Psilocephala imberbis</i>	DD	NT	NT		
<i>Psilota atra</i>	EN	VU	NA		
<i>Psilota innupta</i>	NA	RE	NA		
<i>Psilus rufipes</i>	VU	NE	NA		
<i>Psophus stridulus</i>	VU	EN	VU	LC	
<i>Psora testacea</i>	NA	VU	NA		
<i>Psora vallesiaca</i>	VU	EN	NA		
<i>Psoroglaena abscondita</i>	NA	NA	DD		
<i>Ptenidium gressneri</i>	EN	NT	NA		
<i>Pterella grisea</i>	NA	NT	NE		
<i>Pteromalus apum</i>	NA	NE	NT		
<i>Pteromalus aureolus</i>	NA	NE	NT		
<i>Pteromys volans</i>	NA	NA	NT	DD	LC
<i>Ptilium stockmanni</i>	NA	NA	CR		
<i>Ptinus bicinctus</i>	EN	NT	NT		
<i>Ptinus lichenum</i>	NA	NT	NA		
<i>Ptiolina oculata</i>	NT	NA	NE		
<i>Ptychoptera longicauda</i>	NA	NT	NA		
<i>Puccinia adoxae</i>	VU	NA	NT		

(continued on next page)

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Puccinia blyttiana</i>	NT	NA	NA		
<i>Puccinia intybi</i>	NA	NA	EN		
<i>Pulmonaria officinalis</i>	NA	NT	NA	LC	LC
<i>Pulsatilla patens</i>	NA	NT	EN	DD	
<i>Punctelia ulophylla</i>	VU	NA	NA		
<i>Punctularia strigosozonata</i>	NA	NA	VU		
<i>Pycnoporellus alboluteus</i>	CR	CR	EN		
<i>Pycnora praestabilis</i>	EN	VU	NA		
<i>Pyrausta cingulatus</i>	NA	VU	EN		
<i>Pyrausta nigratus</i>	NA	NT	RE		
<i>Pyrausta ostrinalis</i>	NA	NT	EN		
<i>Pyrausta sanguinalis</i>	CR	VU	EN		
<i>Pyrenopsis furfurea</i>	NE	NE	DD		
<i>Pyrenula coryli</i>	NE	CR	DD		
<i>Pyrenula macrospora</i>	EN	NA	NA		
<i>Pyrenula nitida</i>	EN	NT	NA		
<i>Pyrenula nitidella</i>	CR	EN	NA		
<i>Pyrenula occidentalis</i>	NT	CR	NA		
<i>Pyropyxis rubra</i>	NA	NE	VU		
<i>Pyrrhia exprimens</i>	NA	NA	EN		
<i>Pyrrhospora subcinnabarina</i>	EN	NA	NA		
<i>Pytho abieticola</i>	CR	VU	VU	LC	
<i>Pytho kolwensis</i>	NA	EN	EN	DD	
<i>Quedius fulgidus</i>	EN	NT	RE		
<i>Quedius lundbergi</i>	NA	NT	VU		
<i>Quedius truncicola</i>	EN	VU	NA		
<i>Radiigera flexuosa</i>	NA	CR	NA		
<i>Radulodon erikssonii</i>	VU	VU	VU		
<i>Rainieria calceata</i>	NA	EN	NA		
<i>Ramalina baltica</i>	CR	NT	EN		
<i>Ramalina calicaris</i>	DD	VU	NT		
<i>Ramalina canariensis</i>	CR	NA	NA		
<i>Ramalina elegans</i>	CR	NE	NT		
<i>Ramalina obtusata</i>	CR	VU	CR		
<i>Ramalina roesleri</i>	NA	VU	CR		
<i>Ramalina sinensis</i>	NT	NT	NT		
<i>Ramalina thrausta</i>	VU	EN	VU		
<i>Ramaria aurea</i>	EN	NA	NA		
<i>Ramaria bataillei</i>	EN	VU	NA		
<i>Ramaria broomei</i>	NT	EN	EN		
<i>Ramaria brunneicontusa</i>	NT	NA	NA		
<i>Ramaria echinovirens</i>	NA	EN	NA		
<i>Ramaria fennica</i>	EN	EN	VU		
<i>Ramaria flavobrunnescens</i>	NT	NT	NT		
<i>Ramaria flavosalmonicolor</i>	NA	VU	NA		
<i>Ramaria formosa</i>	NT	NT	NA		
<i>Ramaria fumigata</i>	NA	NT	NA		
<i>Ramaria ignicolor</i>	NT	NE	VU		
<i>Ramaria largentii</i>	NT	VU	NA		
<i>Ramaria mairei</i>	NT	NT	NA		
<i>Ramaria rubella</i>	NA	NE	CR		
<i>Ramaria rufescens</i>	VU	VU	NE		
<i>Ramaria sanguinea</i>	VU	VU	NA		
<i>Ramaria subbotrytis</i>	EN	VU	NA		
<i>Ramaria subdecurrens</i>	DD	NA	NA		
<i>Ramaricium alboochraceum</i>	NE	NA	VU		
<i>Ramariopsis pulchella</i>	NA	VU	NE		
<i>Ramariopsis subtilis</i>	NT	NT	NA		
<i>Ramonia chrysophaea</i>	NA	VU	CR		
<i>Ramonia luteola</i>	NA	NE	RE		
<i>Rana dalmatina</i>	NA	VU	NA	LC	LC
<i>Ranunculus polyanthemus</i>	NA	NT	NA		
<i>Refractohilum galligenum</i>	NA	NE	NT		
<i>Regulus ignicapilla</i>	NA	VU <sup>o</sup>	NA	LC	LC
<i>Remiz pendulinus</i>	NA	EN	EN <sup>o</sup>	LC	LC
<i>Repetobasidium conicum</i>	DD	DD	NA		
<i>Repetobasidium vestitum</i>	DD	DD	DD		
<i>Rhabdepyris myrmecophilus</i>	VU	NE	NA		
<i>Rhabdoweisia crenulata</i>	NT	NA	NA		
<i>Rhacopus sahlbergi</i>	EN	VU	NT	LC	
<i>Rhagio immaculatus</i>	EN	RE	NA		



Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Rhagio notatus</i>	NA	NA	DD		
<i>Rhagium sycophanta</i>	NA	NT	NA		
<i>Rhaphidocyrtis trichosporella</i>	NA	NA	DD		
<i>Rheum rhaponticum</i>	RE	NA	NA		
<i>Rhingia rostrata</i>	NA	RE	NA		
<i>Rhithrogena germanica</i>	NA	NT	NA		
<i>Rhizophagus brancsiki</i>	NA	VU	NA		
<i>Rhizophagus puncticollis</i>	NA	NA	RE		
<i>Rhodocybe stangliana = Squamanita stangliana?</i>	VU	NE	NE		
<i>Rhodoscypa ovilla</i>	NT	DD	NA		
<i>Rhodotarzetta rosea</i>	NT	NA	VU		
<i>Rhodotus palmatus</i>	EN	CR	NA		
<i>Rhopalomesites tardii</i>	EN	NA	NA		
<i>Rhynchaenus rufus</i>	NA	NT	NA		
<i>Rhynchostegiella teneriffae</i>	CR	EN	NA		
<i>Rhynchostegium arcticum</i>	DD	NA	NA		
<i>Rhynchostegium confertum</i>	NT	VU	NA		
<i>Rhynchostegium megapolitanum</i>	NA	NT	NA		
<i>Rhyncolus punctatulus</i>	NA	VU	NA		
<i>Rhyparia purpurata</i>	NA	NA	NT		
<i>Rhyparochromus phoeniceus</i>	RE	NA	NT		
<i>Rhysodes sulcatus</i>	NA	RE	NA		
<i>Rigidoporus obducens</i>	VU	VU	DD		
<i>Rinodina colobina</i>	NE	EN	CR		
<i>Rinodina disjuncta</i>	EN	NA	NA		
<i>Rinodina endophragma</i>	NE	CR	NA		
<i>Rinodina fimbriata</i>	NE	CR	DD		
<i>Rinodina flavosoralifera</i>	NT	NA	NA		
<i>Rinodina isidioides</i>	CR	NA	NA		
<i>Rinodina muscicola</i>	NA	NA	DD		
<i>Rinodina polyspora</i>	NA	CR	CR		
<i>Rinodina sheardii</i>	NT	CR	NA		
<i>Rinodina stictica</i>	CR	NA	NA		
<i>Rocetelion humerale</i>	VU	NT	VU		
<i>Roncus lubricus</i>	VU	NA	NA		
<i>Ropalophorus clavicornis</i>	NA	NE	DD		
<i>Ropalopus femoratus</i>	NA	VU	NA	LC	LC
<i>Ropalopus macropus</i>	NA	RE	NA		
<i>Rosa inodora</i>	VU	EN	NA		
<i>Rosalia alpina</i>	NA	RE	NA		VU
<i>Rubus cyclomorphus</i>	NT	NA	NA		
<i>Rubus dissimulans</i>	NT	VU	NA		
<i>Rubus flaccidifolius</i>	NA	VU	NA		
<i>Rubus langei</i>	VU	NA	NA		
<i>Rubus pyramidalis</i>	NA	EN	NA		
<i>Rubus sciocharis</i>	NA	EN	NA		
<i>Rubus silvaticus</i>	NA	EN	NA		
<i>Rubus steracanthos</i>	CR	CR	NA		
<i>Rubus vigorosus</i>	NA	CR	NA		
<i>Rugosomyces ionides</i>	EN	VU	NA		
<i>Rugosomyces obscurissimus</i>	DD	NT	NE		
<i>Rushia parreyssii</i>	NA	VU	NA		
<i>Russula carpinii</i>	NA	NT	NA		
<i>Russula curtipes</i>	NT	NT	NA		
<i>Russula decipiens</i>	NT	NE	NT		
<i>Russula emeticicolor</i>	NE	VU	NA		
<i>Russula fulvograminea</i>	NE	DD	NT		
<i>Russula innocua</i>	DD	NE	NA		
<i>Russula laeta</i>	NE	VU	NE		
<i>Russula melitodes</i>	NE	NA	NT		
<i>Russula melliolens</i>	NT	VU	NA		
<i>Russula pallidospora</i>	NA	NA	DD		
<i>Russula rubra</i>	EN	NE	NA		
<i>Russula rutila</i>	NT	NT	NA		
<i>Russula torulosa</i>	NE	NT	NA		
<i>Russula vinosobrunnea</i>	NA	NT	NA		
<i>Russula viscida</i>	NE	DD	NA		
<i>Russula zvarae</i>	NE	NE	EN		
<i>Ruthenica filograna</i>	NA	NA	VU		
<i>Rutylapa ruficornis</i>	NA	VU	NA		

(continued on next page)

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Rymosia istrae</i>	DD	NE	NA		
<i>Rymosia pinnata</i>	NA	NE	NT		
<i>Sagina × normaniana</i>	NA	VU	NA		
<i>Salebriopsis albicilla</i>	NT	VU	NA		
<i>Santessoniella arctophila</i>	NE	NE	EN		
<i>Saprinus rugifer</i>	RE	EN	VU		
<i>Sarcodon fuligineoviolaceus</i>	EN	EN	VU		
<i>Sarcodon joeides</i>	EN	VU	NA		
<i>Sarcodon lepidus</i>	NA	VU	NA		
<i>Sarcodon leucopus</i>	NT	EN	VU		
<i>Sarcodon lundellii</i>	NT	VU	VU		
<i>Sarcodon martioflavus</i>	VU	VU	EN		
<i>Sarcodon pseudoglaucopus</i>	NA	VU	NA		
<i>Sarcodon versipellis</i>	NT	VU	RE		
<i>Sarcodontia crocea</i>	NA	CR	CR		
<i>Sarcosoma globosum</i>	EN	VU	NT		NT
<i>Sarcosphaera coronaria</i>	VU	NT	EN		
<i>Satyrium ilicis</i>	NA	NT	NA	LC	
<i>Saulcyella schmidtii</i>	NA	EN	NA		
<i>Scambus atrocoxalis</i>	NA	NE	NT		
<i>Scambus brevicornis</i>	NA	NE	NT		
<i>Scambus planatus</i>	NA	NA	NT		
<i>Scambus strobilorum</i>	NA	NE	NT		
<i>Scapania apiculata</i>	VU	EN	CR		
<i>Scapania brevicaulis</i>	EN	VU	NA		
<i>Scapania carinthiaca</i>	VU	EN	CR		
<i>Scapania crassiretis</i>	NT	VU	NA		
<i>Scapania glaucocephala</i>	EN	EN	NA		
<i>Scaphisoma balcanicum</i>	VU	NT	RE		
<i>Scaphisoma subalpinum</i>	NA	NT	NA		
<i>Sceptonia flavipuncta</i>	NA	NE	NT		
<i>Schismatomma cretaceum</i>	NA	CR	NA		
<i>Schismatomma graphidioides</i>	NA	EN	NA		
<i>Schismatomma pericleum</i>	VU	NT	CR		
<i>Schranksia taenialis</i>	NA	NT	NA		
<i>Sciarosoma borealis</i>	NE	NE	NT		
<i>Sciophila antiqua</i>	NA	NE	VU		
<i>Sciophila balderi</i>	VU	NA	NA		
<i>Sciophila bicuspidata</i>	EN	NA	NA		
<i>Sciophila distincta</i>	NT	NA	NA		
<i>Sciophila exserta</i>	VU	NA	NA		
<i>Sciophila interrupta</i>	VU	NE	NA		
<i>Sciophila limbatella</i>	NT	NE	VU		
<i>Sciophila salassea</i>	NT	NE	EN		
<i>Sciophila setosa</i>	NA	NE	VU		
<i>Sciota rhenella</i>	NA	NA	NT		
<i>Sciria advena</i>	NA	NA	NT		
<i>Sciuro-hypnum flotowianum</i>	DD	NA	NA		
<i>Scleroderma cepa</i>	NE	VU	NE		
<i>Sclerogaster compactus</i>	EN	DD	EN		
<i>Scleropauropus lyrifer</i>	NT	NA	NA		
<i>Sclerophora amabilis</i>	VU	EN	NA		
<i>Sclerophora coniophaea</i>	NT	NT	NT		
<i>Sclerophora farinacea</i>	VU	VU	CR		
<i>Sclerophora pallida</i>	NT	VU	VU		
<i>Sclerophora peronella</i>	NT	VU	VU		
<i>Scolia hirta</i>	NA	NT	NA		
<i>Scolitantides orion</i>	CR	EN	EN	LC	
<i>Scolytus mali</i>	NA	NT	NA		
<i>Scoparia conicella</i>	NA	NT	NA		
<i>Scopula rubiginata</i>	NA	NT	VU		
<i>Scotodes annulatus</i>	NA	NA	NT		
<i>Scrobipalpus diffluella</i>	EN	NT	VU		
<i>Scrophularia umbrosa</i>	NA	CR	NA		
<i>Scydmaenus perrisii</i>	VU	NT	NA		
<i>Scymnus silesiacus</i>	NA	NT	NA		
<i>Scytinostroma galactinum</i>	VU	NT	NT		
<i>Seligeria acutifolia</i>	VU	NT	NA		
<i>Seligeria calcarea</i>	NA	EN	RE		
<i>Seligeria campylopoda</i>	EN	EN	VU		
<i>Seligeria oelandica</i>	VU	VU	NA		

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Seligeria patula</i>	VU	EN	NA		
<i>Sembris phalaenoides</i>	NA	NT	NA		
<i>Sericoda bogemannii</i>	NA	RE	VU		
<i>Serinus serinus</i>	NA	VU <sup>o</sup>	NA	LC	LC
<i>Serratula tinctoria</i>	CR	NT	NA		
<i>Sesia bembeciformis</i>	EN	VU	NT		
<i>Sesia melanocephala</i>	VU	NT	NT		
<i>Setema cereola</i>	VU	NT	NA		
<i>Setodes punctatus</i>	NA	VU	NA		
<i>Shargacucullia scrophulariae</i>	NA	VU <sup>o</sup>	NA		
<i>Sialis sibirica</i>	NA	DD	NA		
<i>Silusa rubiginosa</i>	VU	VU	NT		
<i>Silvanus unidentatus</i>	VU	VU	EN		
<i>Siphonurus armatus</i>	NA	NT	NA		
<i>Sistotrema citrifforme</i>	VU	VU	NA		
<i>Sistotrema dennisii</i>	DD	NA	DD		
<i>Sistotrema pistilliferum</i>	NE	DD	NA		
<i>Sisyra dalii</i>	NA	NT	NA		
<i>Sisyra jutlandica</i>	NA	DD	NA		
<i>Sisyra terminalis</i>	NA	NT	NA		
<i>Sitobion dryopteridis</i>	NA	NE	NT		
<i>Sitobion equiseti</i>	NA	NE	NT		
<i>Skeletocutis borealis</i>	DD	DD	VU		
<i>Skeletocutis brevispora</i>	VU	VU	NT		
<i>Skeletocutis chrysellae</i>	VU	VU	NT		
<i>Skeletocutis jelicii</i>	EN	EN	EN		
<i>Skeletocutis lilacina</i>	EN	VU	VU		
<i>Skeletocutis ochroalba</i>	DD	VU	NE		
<i>Skeletocutis odora</i>	VU	VU	NT		
<i>Skeletocutis stellae</i>	VU	VU	VU		
<i>Smaragdina affinis</i>	NA	NA	NT		
<i>Sonronius anderi</i>	NA	VU	VU		
<i>Sophronia humerella</i>	NA	NT	EN		
<i>Sorbus aria</i>	NT	NA	NA		
<i>Sorbus lancifolia</i>	CR	NA	NA		
<i>Sorbus meinichii</i>	NT	NA	CR		
<i>Sorbus neglecta</i>	EN	NA	NA		
<i>Sorbus subarranensis</i>	NT	NA	NA		
<i>Sorbus subpinnata</i>	NT	NA	NA		
<i>Sorbus subsimilis</i>	NT	NA	NA		
<i>Sorbus teodori</i>	NA	VU	NA	DD	DD
<i>Sowerbyella brevispora</i>	NA	NA	VU		
<i>Sowerbyella densireticulata</i>	NA	DD	NA		
<i>Sowerbyella imperialis</i>	VU	NT	CR		
<i>Sowerbyella radiculata</i>	VU	VU	CR		
<i>Sowerbyella rhenana</i>	EN	DD	NA		
<i>Spaelotis suecica</i>	NT	VU <sup>o</sup>	NT		
<i>Sphaeriestes reyi</i>	VU	VU	NE		
<i>Sphecomyia vespiformis</i>	EN	VU	VU		
<i>Spheg funerarius</i>	NA	VU	NA		
<i>Sphinctrina anglica</i>	NA	EN	RE		
<i>Sphinctrina leucopoda</i>	NA	EN	NA		
<i>Sphinctrina porrectula</i>	NA	NA	RE		
<i>Sphinctrina turbinata</i>	EN	VU	RE		
<i>Sphiximorpha subsessilis</i>	NA	EN	RE		
<i>Splachnum melanocaulon</i>	VU	NT	EN		
<i>Spongipellis delectans</i>	NA	VU	NA		
<i>Spongipellis fissilis</i>	EN	VU	NT		
<i>Spongipellis pachyodon</i>	NA	RE	NA		
<i>Spongipellis spumea</i>	EN	NT	NT		
<i>Squamanita fimbriata</i>	CR	NA	NA		
<i>Squamanita odorata</i>	VU	NE	NE		
<i>Squamanita paradoxa</i>	EN	VU	NE		
<i>Squamarina degelii</i>	VU	EN	NA		
<i>Squamarina gypsacea</i>	CR	VU	NA		
<i>Staurolemma omphalarioides</i>	VU	NA	NA		
<i>Steccherinum aridum</i>	DD	DD	NA		
<i>Steccherinum collabens</i>	VU	VU	NT		
<i>Steccherinum robustius</i>	NA	VU	NA		
<i>Steccherinum subcrinale</i>	DD	NA	NA		

(continued on next page)

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Stelis phaeoptera</i>	RE	NT	NT	DD	
<i>Stelis signata</i>	NA	NA	NT	LC	
<i>Stellaria fennica</i>	EN	CR	NT		
<i>Stellaria neglecta</i>	NA	NT	NA		
<i>Stenagostus rhombeus</i>	NA	VU	NA	LC	
<i>Stenagostus rufus</i>	CR	VU	NA	LC	LC
<i>Stenaphorura denisi</i>	VU	NA	NA		
<i>Stenocybe flexuosa</i>	EN	NA	NA		
<i>Stenodynerus bluethgeni</i>	NA	NT	NA		
<i>Stenostola ferrea</i>	VU	NA	NA		
<i>Stenus gallicus</i>	NA	DD	NA		
<i>Stenus glabellus</i>	NA	NT	NA		
<i>Stenus providedus</i>	VU	NT	NA		
<i>Stenus sylvester</i>	EN	DD	NT		
<i>Stephanopachys substriatus</i>	CR	NT	NT	LC	
<i>Stephensia bombycina</i>	NA	EN	NA		
<i>Stephensia brunnicHELLa</i>	EN	NT	EN		
<i>Stephostethus attenuatus</i>	NA	NA	VU		
<i>Stereocaulon coniophyllum</i>	VU	CR	EN		
<i>Stereocaulon delisei</i>	VU	RE	NA		
<i>Stereocaulon incrustatum</i>	NE	EN	VU		
<i>Stereocorynes truncorum</i>	NA	VU	NA		
<i>Sterictiphora sorbi</i>	NA	NA	NT		
<i>Stethoconus cyrtopeltis</i>	NA	NA	DD		
<i>Sticta canariensis</i>	VU	NA	NA		
<i>Stictis populorum</i>	NA	NE	NT		
<i>Stictoleptura scutellata</i>	NA	VU	NA		
<i>Stigmella dorsiguttella</i>	NA	NT	NA		
<i>Stigmella lemniscella</i>	CR	NT	NT		
<i>Stigmella lonicerarum</i>	NA	NT	EN		
<i>Stigmella sakhalinella</i>	EN	DD	NA		
<i>Stigmella ulmivora</i>	EN	NT	VU		
<i>Stigmatidium degelii</i>	NA	EN	NA		
<i>Stilbops ruficornis</i>	NA	NE	CR		
<i>Stilpnogaster aemula</i>	NA	CR	NA		
<i>Stiromoides maculiceps</i>	NA	NA	EN		
<i>Strangalia attenuata</i>	RE	NT	CR		
<i>Strangospora microhaema</i>	NE	NE	DD		
<i>Streptopelia turtur</i>	NA	NA	CR	VU	VU
<i>Strigula jamesii</i>	NE	EN	NA		
<i>Stromatinia rapulum</i>	NT	NA	NE		
<i>Strongylognathus testaceus</i>	NA	EN	NA		
<i>Strongylophthalmyia pictipes</i>	NA	NE	VU		
<i>Strophosoma fulvicorne</i>	EN	NT	VU		
<i>Subulicium minus</i>	NA	DD	NA		
<i>Subulicium rallum</i>	DD	DD	NA		
<i>Suillosporium cystidiatum</i>	DD	DD	DD		
<i>Suillus spectabilis</i>	NA	NA	EN		
<i>Sus scrofa</i>	NA	NA	DD	LC	LC
<i>Syarinus strandi</i>	NT	NA	NA		
<i>Sycophila biguttata</i>	NA	NE	NT		
<i>Sycophila flavicollis</i>	NA	NE	NT		
<i>Sylvia nisoria</i>	CR	VU	VU	LC	LC
<i>Symbalophthalmus pictipes</i>	DD	NE	NA		
<i>Symmerus annulatus</i>	NT	NE	VU		
<i>Symmerus nobilis</i>	NT	NT	VU		
<i>Symmorphus fuscipes</i>	NA	EN	RE		
<i>Symmorphus murarius</i>	RE	NT	CR		
<i>Symphylella elongata</i>	NA	DD	NA		
<i>Synacra incompleta</i>	NT	NA	NA		
<i>Synanthedon andrenaeformis</i>	NA	NT	NA		
<i>Synanthedon soffneri</i>	NA	NA	DD		
<i>Synanthedon vespiformis</i>	NA	VU	NA		
<i>Synchita separanda</i>	NA	EN	NA		
<i>Synchita variegata</i>	NA	NT	NA		
<i>Syngrapha hohenwarthi</i>	NA	VU	NA		
<i>Synplasta bayardi</i>	NA	NE	VU		
<i>Synplasta dulcia</i>	NA	NE	NT		
<i>Synplasta ingeniosa</i>	NA	NE	NT		
<i>Synplasta pseudingeniosa</i>	DD	NE	DD		
<i>Syntemna morosa</i>	NA	NE	NT		

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Syntemna oulankaensis</i>	NA	NA	VU		
<i>Syntrichia laevipila</i>	VU	EN	NA		
<i>Systemus leucurus</i>	NA	NT	NA		
<i>Systemus scholtzi</i>	EN	VU	NA		
<i>Syzygospora lapponica</i>	NA	NA	DD		
<i>Szczawinskia leucopoda</i>	NT	RE	NA		
<i>Tabanus miki</i>	NA	RE	NE		
<i>Tachinus bipustulatus</i>	NA	RE	NA		
<i>Tachyusida gracilis</i>	NA	VU	NA		
<i>Taeniolella verrucosa</i>	NA	EN	NA		
<i>Taphrina ulmi</i>	NA	NT	VU		
<i>Tarnania dziedickii</i>	DD	NE	NA		
<i>Tarnania nemoralis</i>	VU	NE	NA		
<i>Tarsiger cyanurus</i>	NA	EN <sup>o</sup>	NT	LC	LC
<i>Tayloria acuminata</i>	NT	NA	NA		
<i>Tayloria serrata</i>	EN	EN	NA		
<i>Tayloria tenuis</i>	NT	NT	NT		
<i>Tectella patellaris</i>	NT	NE	NE		
<i>Telenomus aradi</i>	NT	NE	NE		
<i>Telenomus brevis</i>	NT	NE	NE		
<i>Telenomus ciliatus</i>	VU	NA	NA		
<i>Telenomus heydeni</i>	NT	NA	NE		
<i>Telenomus punctiventris</i>	NT	NE	NE		
<i>Temnoscheila caerulea</i>	NA	EN	NA		
<i>Temnostoma angustistriatum</i>	CR	NA	VU		
<i>Temnostoma carens</i>	NA	NT	NT		
<i>Temnostoma meridionale</i>	NA	NT	NA		
<i>Temnostoma sericomylaeforme</i>	VU	NT	NT		
<i>Temnothorax affinis</i>	NA	NT	NA		
<i>Temnothorax parvulus</i>	NA	VU	NA		
<i>Tenebrio obscurus</i>	NA	NA	RE		
<i>Tenebrio opacus</i>	NA	VU	NA		
<i>Tenthredo amurica</i>	NA	NE	RE		
<i>Tenthredo eburata</i>	NA	NE	VU		
<i>Tenthredo eburneifrons</i>	NA	NA	RE		
<i>Tenthredo fagi</i>	VU	NE	EN		
<i>Terana caerulea</i>	NT	NA	NA		
<i>Teredes cylindricus</i>	NA	CR	NA		
<i>Teretrius fabricii</i>	NA	RE	VU		
<i>Tetragoneura obirata</i>	DD	NE	DD		
<i>Tetrastichus heeringi</i>	NA	NE	NT		
<i>Tetrastichus leocrates</i>	NA	NE	NT		
<i>Tetrastichus miser</i>	NA	NE	NT		
<i>Tetratoma desmarestii</i>	NA	VU	NA		
<i>Tetrodontium ovatum</i>	NT	VU	NT		
<i>Tetropium aquilonium</i>	NA	DD	NT		
<i>Tetrops starkii</i>	VU	NT	NA		
<i>Thamnobryum neckeroides</i>	NA	DD	NA		
<i>Thamnobryum subserratum</i>	NA	EN	NA		
<i>Thanatephorus terrigenus</i>	NE	DD	VU		
<i>Thaumanura carolii</i>	DD	NA	NA		
<i>Thelenella modesta</i>	NE	NE	RE		
<i>Thelenella pertusariella</i>	NE	NE	DD		
<i>Thelocarpon depressellum</i>	NA	NE	VU		
<i>Thelocarpon intermediellum</i>	NE	NE	NT		
<i>Thelopsis flaveola</i>	VU	VU	NA		
<i>Thelopsis rubella</i>	VU	VU	NA		
<i>Thelotrema macrosporum</i>	EN	NA	NA		
<i>Thelotrema petractoides</i>	EN	NA	NA		
<i>Thelotrema suecicum</i>	NT	NT	NA		
<i>Theridion familiare</i>	NA	NT	NA		
<i>Theridion montanum</i>	VU	NT	NT		
<i>Theridion palmgreni</i>	NA	NA	NT		
<i>Therioaphis brachytricha</i>	NA	NE	EN		
<i>Theronia atalantae</i>	NA	NE	RE		
<i>Theronia laevigata</i>	NA	NE	RE		
<i>Thiasophila inquilina</i>	EN	NT	NT		
<i>Thomisus onustus</i>	NA	NT	NA		
<i>Thrips robustus</i>	NA	NA	NT		
<i>Thrips urticae</i>	NA	NA	DD		

(continued on next page)

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Thujacorticium zurhausenii</i>	EN	NA	NA		
<i>Thymalus oblongus</i>	VU	VU	NA		
<i>Thymus serpyllum</i>	NA	NT	NA	LC	
<i>Tilia platyphyllos</i>	NA	CR	NA	LC	LC
<i>Tipula (Pterelachisus) matsumuriana pseudohortensis</i>	NA	NA	VU		
<i>Tipula (Pterelachisus) octomaculata</i>	NA	NA	NT		
<i>Tipula (Pterelachisus) stenostyla</i>	NA	NA	VU		
<i>Tipula autumnalis</i>	NA	EN	NE		
<i>Tipula crassicornis</i>	DD	DD	NE		
<i>Tipula jutlandica</i>	NA	DD	NE		
<i>Tipula kaisilai</i>	NA	NT	NA		
<i>Tipula middendorffi</i>	DD	NA	NA		
<i>Tipula pauli</i>	NA	DD	NA		
<i>Tipula persignata</i>	NA	DD	NA		
<i>Tipula zonaria</i>	NA	VU	NA		
<i>Titanosiphon artemisiae</i>	NA	NA	VU		
<i>Tomentella calcicola</i>	VU	NA	NA		
<i>Tomostethus nigrinus</i>	VU	NE	VU		
<i>Toninia candida</i>	VU	CR	NA		
<i>Toninia tumidula</i>	NA	CR	NA		
<i>Tortula laureri</i>	CR	NA	NA		
<i>Trachelipus ratzeburgi</i>	NT	NT	NA		
<i>Tragosoma depsarius</i>	VU	NT	EN		
<i>Trametes suaveolens</i>	EN	EN	NT		
<i>Trapeliopsis viridescens</i>	NE	CR	RE		
<i>Trapeliopsis wallrothii</i>	VU	EN	NA		
<i>Trechispora candidissima</i>	DD	NT	NT		
<i>Tremella hypocenomyces</i>	NA	NA	DD		
<i>Tretomyces lutescens</i>	DD	VU	NA		
<i>Triaspis striola</i>	NA	NE	DD		
<i>Triaxomasia caprimulgella</i>	CR	EN	NA		
<i>Trichaptum laricinum</i>	NT	NT	NT		
<i>Trichaptum pargamenum</i>	NE	NA	NT		
<i>Tricharina ochroleuca</i>	DD	NA	NA		
<i>Tricharina praecox</i>	DD	NA	NE		
<i>Trichaster melanocephalus</i>	EN	NT	NE		
<i>Trichiosoma groenblomi</i>	NA	NA	RE		
<i>Trichoglossum walteri</i>	VU	VU	EN		
<i>Tricholoma acerbum</i>	EN	EN	NA		VU
<i>Tricholoma alboconicum</i>	DD	NA	NA		
<i>Tricholoma argyraceum</i>	DD	NA	NA		
<i>Tricholoma basirubens</i>	NA	VU	NA		
<i>Tricholoma borgsjoeense</i>	VU	VU	NT		VU
<i>Tricholoma bresadolanium</i>	NA	VU	NA		
<i>Tricholoma dulciolens</i>	EN	VU	NT		
<i>Tricholoma filamentosum</i>	VU	VU	NA		
<i>Tricholoma ikkaii</i>	NA	VU	NA		
<i>Tricholoma joachimii</i>	EN	EN	NA		
<i>Tricholoma olivaceotinctum</i>	NT	VU	NA		
<i>Tricholoma orirubens</i>	NA	VU	NA		
<i>Tricholoma roseoacervum</i>	NA	VU	NT		
<i>Tricholoma sejunctum</i>	EN	NT	NA		
<i>Tricholoma sudum</i>	NE	VU	NE		
<i>Tricholoma sulphurescens</i>	NT	DD	NT		
<i>Tricholoma ustaloides</i>	VU	NT	NA		
<i>Trichonta aberrans</i>	VU	NA	NA		
<i>Trichonta delicata</i>	VU	NA	DD		
<i>Trichonta lyricea</i>	VU	NA	NA		
<i>Trichonta patens</i>	DD	NA	DD		
<i>Trichonta tristis</i>	VU	NE	NA		
<i>Trichonta trivittata</i>	VU	NE	NE		
<i>Trichonyx sulcicollis</i>	EN	NT	VU		
<i>Trichophaga scandinaviana</i>	NT	NT	NT		
<i>Trichophaga tapetzella</i>	NA	RE	NA		
<i>Trichopria tenuicornis</i>	NT	NE	NE		
<i>Trichosea ludifica</i>	NA	RE	NT		
<i>Trichosiphonaphis corticis</i>	NA	NE	VU		
<i>Trifolium alpestre</i>	NA	EN	NA	LC	
<i>Trifolium montanum</i>	VU	NT	NA		
<i>Trigonaspis megaptera</i>	NA	NE	VU		
<i>Trimorus brevicollis</i>	NT	NE	NE		

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Trinodes hirtus</i>	NA	NT	NA		
<i>Trioxys falcatus</i>	NA	NE	DD		
<i>Trioxys ibis</i>	NA	NA	DD		
<i>Trioxys pannonicus</i>	NA	NA	RE		
<i>Trogulus tricarinatus</i>	DD	NT	NA		
<i>Tromatobia variabilis</i>	NA	NE	NT		
<i>Tropideres dorsalis</i>	VU	NT	NT		
<i>Trypophloeus discedens</i>	NA	NT	NT		
<i>Tuber aestivum</i>	NE	VU	NA		
<i>Tuber foetidum</i>	DD	NA	NE		
<i>Tuber mesentericum</i>	NA	VU	NA		
<i>Tubulicrinis cinctus</i>	NE	DD	NA		
<i>Tubulicrinis confusus</i>	NE	NE	DD		
<i>Tubulicrinis evenii</i>	VU	NE	NA		
<i>Tubulicrinis regificus</i>	DD	DD	NA		
<i>Tubulicrinopsis cystidiata</i>	NA	NA	DD		
<i>Tuckermannopsis ciliaris</i>	NA	NA	RE		
<i>Tulasnella cystidiophora</i>	NA	NA	DD		
<i>Typhochrestus sylviae</i>	DD	NA	NA		
<i>Tyromyces alborubescens</i>	NA	EN	NA		
<i>Tyromyces kmetii</i>	NT	DD	NT		
<i>Tyromyces wynnei</i>	EN	VU	NA		
<i>Udea accolalis</i>	NA	NA	EN		
<i>Ulmus glabra</i>	VU	CR	VU		
<i>Ulmus glabra</i>	VU	CR	NA		
<i>Ulmus glabra montana</i>	VU	NA	NA		
<i>Ulmus laevis</i>	NA	VU	VU		
<i>Ulmus minor</i>	NA	CR	NA		
<i>Uloma culinaris</i>	EN	NT	NA		
<i>Umbilicaria subglabra</i>	NA	RE	NA		
<i>Uncobasidium luteolum</i>	DD	DD	NA		
<i>Upis ceramboides</i>	CR	VU	NT		
<i>Upupa epops</i>	NA	RE	NA	LC	LC
<i>Urnula craterium</i>	NE	EN	VU		
<i>Urocerus fantoma</i>	NA	DD	VU		
<i>Urocystis melicae</i>	NT	NA	NE		
<i>Urocystis paridis</i>	NA	NA	VU		
<i>Ursus arctos</i>	EN <sup>o</sup>	NT	NT <sup>o</sup>	LC	LC
<i>Urytalpa atriceps</i>	NA	NT	DD		
<i>Urytalpa trivittata</i>	VU	VU	NE		
<i>Usnea ceratina</i>	NA	RE	NA		
<i>Usnea cornuta</i>	NT	NA	NA		
<i>Usnea flammea</i>	NT	NA	NA		
<i>Usnea fragilescens</i>	VU	NA	NA		
<i>Usnea glabrata</i>	EN	CR	CR		
<i>Usnea longissima</i>	EN	VU	RE		
<i>Usnocetraria oakesiana</i>	CR	NA	NA		
<i>Ussurinus nobilis</i>	NA	NA	VU		
<i>Vanonus brevicornis</i>	NA	VU	NA		
<i>Variimorda basalis</i>	NA	NA	VU		
<i>Variimorda villosa</i>	NA	VU	VU		
<i>Veraphis engelmarki</i>	NA	DD	DD		
<i>Veronica montana</i>	NA	VU	NA		
<i>Verrucaria carbonella</i>	NA	NE	EN		
<i>Vertigo genesii</i>	NT	NT	EN	LC	LC
<i>Vertigo geyeri</i>	VU	NT	NT	LC	LC
<i>Vertigo moulinsiana</i>	NA	VU	NA	VU	VU
<i>Vertigo ultimathule</i>	DD	DD	NA	NT	NT
<i>Vicia dumetorum</i>	NA	VU	NA		
<i>Vicia orobus</i>	NT	NA	NA		LC
<i>Vicia pisiformis</i>	EN	EN	NA		LC
<i>Victrix umovii</i>	CR	CR	DD		
<i>Villa cingulata</i>	NT	VU	CR		
<i>Villa paniscus</i>	EN	VU	NA		
<i>Vincenzellus ruficollis</i>	NA	VU	NA		
<i>Viola elatior</i>	NA	EN	NA		
<i>Viola stagnina</i>	NA	NT	NA		
<i>Viola uliginosa</i>	NA	NT	EN		
<i>Volvariella caesiointincta</i>	VU	VU	EN		
<i>Volvariella surrecta</i>	NT	NT	VU		

(continued on next page)

Table A1 (continued)

Species (n=2785)	Norway	Sweden	Finland	EU	IUCN
<i>Wagaicis wagai</i>	NA	NA	CR		
<i>Wagneriala minima</i>	VU	VU	VU		
<i>Walckenaeria incisa</i>	NA	NT	NA		
<i>Wankeliella pongei</i>	DD	NA	NA		
<i>Willemia unispina</i>	DD	NA	NA		
<i>Wormaldia occipitalis</i>	NA	VU	NA		
<i>Xanthia gilvago</i>	NT	NT	NA		
<i>Xanthochilus quadratus</i>	NA	EN	NA		
<i>Xanthoperla apicalis</i>	NA	NT	NA		
<i>Xenasma pulverulentum</i>	VU	NT	NA		
<i>Xenasma rimicola</i>	VU	DD	DD		
<i>Xenylla tullbergi</i>	VU	NA	NA		
<i>Xerocomus depilatus</i>	NA	VU	NA		
<i>Xerocomus impolitus</i>	VU	VU	CR		
<i>Xerocomus pelletieri</i>	DD	EN	NA		
<i>Xerula caussei</i>	NA	DD	NA		
<i>Xerula longipes</i>	NA	VU	CR		
<i>Xestia alpicola</i>	NA	NT	NA		
<i>Xestia borealis</i>	NA	EN	VU		
<i>Xestia distensa</i>	NA	VU	NT		
<i>Xestia ditrapezium</i>	NA	RE	NA		
<i>Xestia fennica</i>	NA	VU	NA		
<i>Xestia gelida</i>	EN	VU	VU		
<i>Xestia laetabilis</i>	NA	NT	NA		
<i>Xestia rhaetica</i>	NT	NE	NA		
<i>Xestia sincera</i>	EN	EN	VU		
<i>Xestia speciosa</i>	NA	NT	NA		
<i>Xiphydria picta</i>	NA	DD	VU		
<i>Xorides alpestris</i>	NA	NE	NT		
<i>Xorides ater</i>	NA	NE	VU		
<i>Xorides brachylabis</i>	NA	NE	VU		
<i>Xorides depressus</i>	NA	NE	EN		
<i>Xorides gravenhorstii</i>	NA	NE	VU		
<i>Xorides irrigator</i>	NA	NE	NT		
<i>Xorides niger</i>	NA	NA	RE		
<i>Xorides praecatorius</i>	NA	NE	NT		
<i>Xorides sepulchralis</i>	NA	NE	NT		
<i>Xylaria corniformis</i>	NA	EN	NA		
<i>Xylaria friesii</i>	NA	RE	NA		
<i>Xyleborus monographus</i>	CR	NT	NA		
<i>Xyletinus longitarsis</i>	VU	NT	NA		
<i>Xyletinus tremulicola</i>	NA	NT	VU		
<i>Xyletinus vaederoeensis</i>	NA	VU	NA	NT	NT
<i>Xylobolus frustulatus</i>	NT	NT	VU		
<i>Xylodon spathulatus</i>	DD	NT	NA		
<i>Xylodon tuberculatus</i>	DD	DD	NA		
<i>Xylodromus testaceus</i>	NA	VU	NA		
<i>Xylolaemus fasciculosus</i>	NA	RE	NA		
<i>Xylomoia strix</i>	NA	NA	DD		
<i>Xylomya czekanovskii</i>	NA	EN	VU		
<i>Xylomya maculata</i>	NA	EN	NA		
<i>Xylophagus kowarzi</i>	NT	NT	NT		
<i>Xyloschistes platytropa</i>	NA	NA	DD		
<i>Xylota abiens</i>	NA	NT	NA		
<i>Xylota suecica</i>	NT	NT	NT		
<i>Xylota xanthocnema</i>	VU	NT	DD		
<i>Xystophora carchariella</i>	NA	EN	NA		
<i>Yponomeuta irrorellus</i>	NA	NT	NA		
<i>Zaglyptus multicolor</i>	NA	NE	NT		
<i>Zavaljus brunneus</i>	NA	EN	NT		
<i>Zelotes puritanus</i>	NT	NT	NA		
<i>Zilla diodia</i>	NA	DD	NA		
<i>Zygaena loniceræ</i>	EN	NT	VU		
<i>Zygaena minus</i>	NA	NT	NA		
<i>Zygaena osterodensis</i>	EN	NT	RE		
<i>Zygodon dentatus</i>	VU	NA	NA		
<i>Zygota caligula</i>	NT	NA	NA		



**Table A2**

Number and proportions of species in different organism groups on a national versus candidates for Fennoscandian redlist (CFRL) for a) Norway, b) Sweden and c) Finland. P-values are derived from chi-square tests. NB! Organism groups with very few individuals were omitted from statistical analyses. \* $p < 0.05$ , \*\* $p < 0.001$ .

	National		National CFRL		P-value
	#	%	#	%	
a) Norway	2279		1316		
Bryophyta	78	3.4	59	4.5	<b>0.0018*</b>
Lichens	197	8.6	179	13.6	<b>2.2E-16**</b>
Tracheophyta	108	4.7	61	4.6	0.837
Fungi	705	30.9	464	35.3	<b>7.58E-07**</b>
Arachnida	28	1.2	14	1.1	0.509
Coleoptera	411	18.0	161	12.2	<b>2.2E-06**</b>
Diptera	266	11.7	140	10.6	0.074
Lepidoptera	214	9.4	105	8.0	<b>0.0046*</b>
Hymenoptera	170	7.5	86	6.5	0.054
Heteroptera	52	2.3	16	1.2	<b>0.0001**</b>
Mollusca	10	0.4	9	0.7	0.082
Reptilia	3	0.1	2	0.2	1
Aves	23	1.0	12	0.9	0.728
Mammalia	14	0.6	8	0.6	1
b) Sweden	2376		1827		
Bryophyta	102	4.3	59	3.2	<b>3.90E-06**</b>
Lichens	260	10.9	200	10.9	0.9003
Tracheophyta	132	5.6	95	5.2	0.096
Fungi	729	30.7	563	30.8	1
Arachnida	44	1.9	37	2.0	0.353
Coleoptera	461	19.4	344	18.8	0.173
Diptera	145	6.1	119	6.5	0.174
Lepidoptera	300	12.6	242	13.2	0.254
Hymenoptera	99	4.2	92	5.0	<b>0.00021**</b>
Heteroptera	26	1.1	22	1.2	0.497
Mollusca	16	0.7	15	0.8	0.197
Reptilia	4	0.2	4	0.2	0.621
Aves	43	1.8	22	1.2	<b>9.35E-5**</b>
Mammalia	15	0.6	13	0.7	0.566
c) Finland	2362		1335		
Bryophyta	97	4.1	27	2.0	<b>8.03E-9**</b>
Lichens	335	14.2	182	13.6	0.366
Tracheophyta	79	3.3	35	2.6	<b>0.03*</b>
Fungi	449	19.0	299	22.4	<b>7.03E-6**</b>
Arachnida	32	1.4	13	1.0	0.094
Coleoptera	327	13.8	177	13.3	0.33
Diptera	192	8.1	119	8.9	0.147
Lepidoptera	354	15.0	163	12.2	<b>6.4E-06**</b>
Hymenoptera	324	13.7	217	16.3	<b>8.24E-05**</b>
Heteroptera	105	4.4	69	5.2	0.072
Mollusca	22	0.9	7	0.5	<b>0.0312*</b>
Reptilia	2	0.1	1	0.1	1
Aves	32	1.4	18	1.3	1
Mammalia	12	0.5	8	0.6	0.323

**Table A3**

Number of nationally red-listed species in each Red List category among the nationally red-listed species that are not candidates, and among the Candidates for the Fennoscandian Red List (CFRL) within each country.

	Red List Category	National Red List		CFRL	
		#	%	#	%
Norway	RE	45	1.9	36	2.7
	CR	121	5.2	109	8.3
	EN	436	18.8	301	23.0
	VU	692	29.8	395	30.2
	NT	756	32.6	335	25.6
Sweden	DD	270	11.6	134	10.2
	RE	88	3.6	75	4.0
	CR	113	4.6	95	5.1
	EN	345	14.2	306	16.3
	VU	730	30.0	605	32.2
Finland	NT	934	38.3	622	33.1
	DD	227	9.3	176	9.4
	RE	153	6.4	112	8.3
	CR	162	6.8	122	9.0
	EN	332	13.9	207	15.3
	VU	607	25.4	358	26.4
	NT	934	39.1	415	30.6
	DD	201	8.4	140	10.3

**Table A4**

Number of nationally red-listed species red-listed by each IUCN- criteria (A-D) among the nationally red-listed species and among the Candidates for the Fennoscandian Red List (CFRL) within each country. Decline = criteria A and C and combinations of these. Please note that species may be listed by more than one criteria. Criteria A-D follow IUCN definitions.

Criteria	Norway		Sweden		Finland	
	NRL	CFRL	NRL	CFRL	NRL	CFRL
	2330	1343	2437	1879	2389	1359
A	186	130	421	265	381	177
B	1084	513	1066	852	1300	708
C	577	421	362	285	225	137
D	395	288	516	414	631	364
Decline	790	519	1015	793	1310	500

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